TA-A77E/D709E

AEP Model UK Model

TA-D709F

TA-A77E

E Model

SERVICE MANUAL

REVISED

Australian Model Tourist Model

This set is the Preamplifier section in LBT-A77CD/ A77CDM/D709CD/D759CD.

This photo is TA-A77E.

SPECIFICATIONS

Input	Jack type	Sensitivity	Impedance
VIDEO 1/MD	Phono	245 mV	47 kohms
VIDEO 2	Phono	245 mV	47 kohms
VIDEO 3	Phono	245 mV	47 kohms
PHONO (MM)	Phono	3.3 mV	47 kohms
MIC	Phone	1 mV	10 kohms

Audio output	Jack type	Voltage	Impedance
VIDEO 1/MD VIDEO 2	Phono Phono	235 mV 235 mV	2 kohms 2 kohms
CENTER OUT	Phono		

Video output (phono jacks)

VIDEO 1/MD

1 Vp-p, 75 ohm unbalanced, sync

negative

VIDEO 2

1 Vp-p, 75 ohm unbalanced, sync

negative

MONITOR

1 Vp-p, 75 ohm unbalanced, sync

negative

Frequency response

15 Hz to 20 kHz +0 dB

Power requirements

220-230V AC, 50/60Hz (AEP, G, IT, EE model)

240V AC, 50/60Hz (UK model) 120V/220-240V AC, adjustable with the voltage selector, 50/60Hz (A77E)

Power consumption Mass

Dimensions

Approx. 3.7 kg (8 lbs 3 oz) Approx. 355 x 135 x 330 mm

 $(14 \times 5 \frac{1}{4} \times 12^{7})_{8}$ inches) (w/h/d, including projections)

Design and specifications are subject to change without notice.

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

Abbreviations

G: German model IT: Italian model EE: East European model

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol DO and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

DIGITAL STEREO PREAMPLIFIER SONY

MODEL IDENTIFICATION

AUS: Australian model
JE: Tourist model
MY: Malaysia model
SP: Singapore model

-Specification Label-

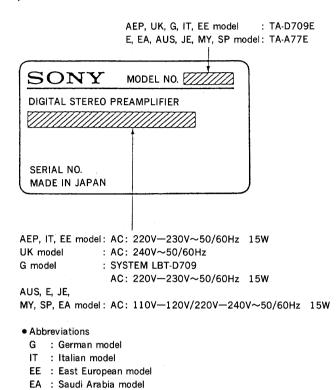


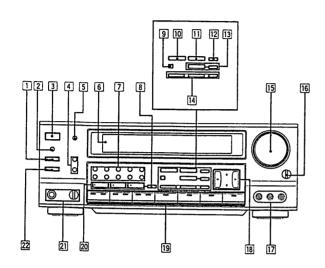
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SECTION 1 GENERAL

1-1. LOCATION OF CONTROLS

This section is extracted from instruction manual.



- 1]EFFECT button and indicator (22)2]KARAOKE PON button and indicator (150) (A77E only)
- 3 POWER switch (18)
- 4 Dynamic Bass System controls (FREQUENCY, LEVEL) (22)
- [5] DISPLAY button (136)
- 6 Display window
- 7 Numeric buttons (124, 140, 142) 8 MEMORY button (140)
- 9PRO LOGIC MODE button (120)
- 10 EFFECT LEVEL button (124)
- MACOUSTIC CONTrol button (122, 130,
- 12 CHARACTER EDIT button (144)
- 3SURROUND CONTROL and ON/OFF buttons (130)
- 14 EQUALIZER BAND, SLOPE and FLAT buttons (132, 134)
- 15 VOLUME control (22)
- 16 BALANCE control (22)
- 17 VIDEO 3 INPUT jacks (14)
- **IBCURSOR CONTROL button (122, 130,** 132, 138, 144)
- 19 Function selectors and indicators (42) 20 SELECT 10, MORE 10 and P. FILE buttons (124, 142)
- 21MIC (microphone) jack and MIC LEVEL control (152)
- 22P. FUNCTION button and indicator (156)

SECTION 2 SERVICE NOTES

2-1. NOTES AT SERVICE AND INSPECTION

The parts No. suffix of the board differs from set to set.

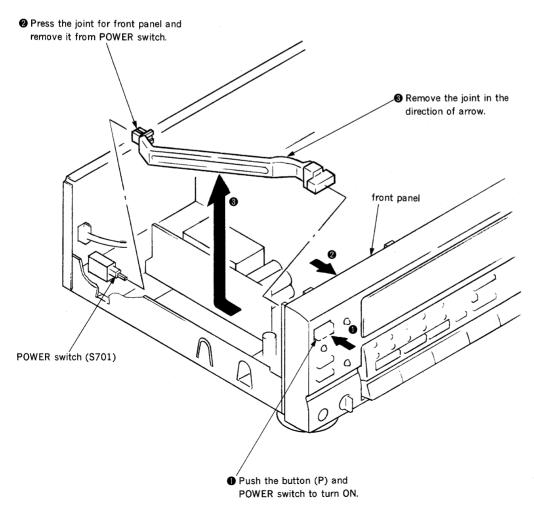
There are four types of parts No. suffix for each board.

Check the type of the set according to the following list before performing service and inspection.

Board	The Parts No. Suffix of the Board				
Name	TYPE I	TYPE II	TYPE III	TYPE IV	
MAIN	11	12	13	14	
MICROPHONE AMPLIFIER	11	11	12	13	
VOL	12	14	15	16	
BALANCE	11	11	11	12	
VIDEO (3)	11	11	12	12	
VIDEO FUNCTION	11	11	12	12	
PANEL	11	12	12	13	
AU FUNCTION	11	13	14	14	

Note: Follow the disassembly procedure in the numerical order given.

2-2. REMOVAL OF JOINT



SECTION 3 DIAGRAMS

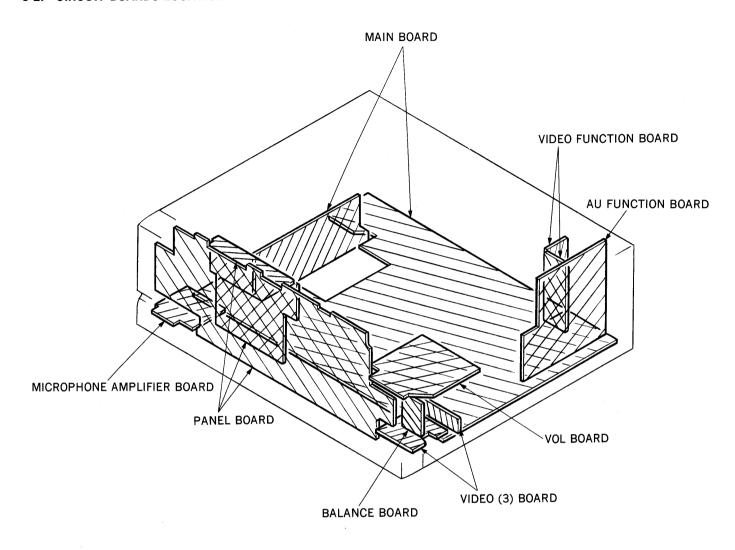
3-1. PIN DESCRIPTION

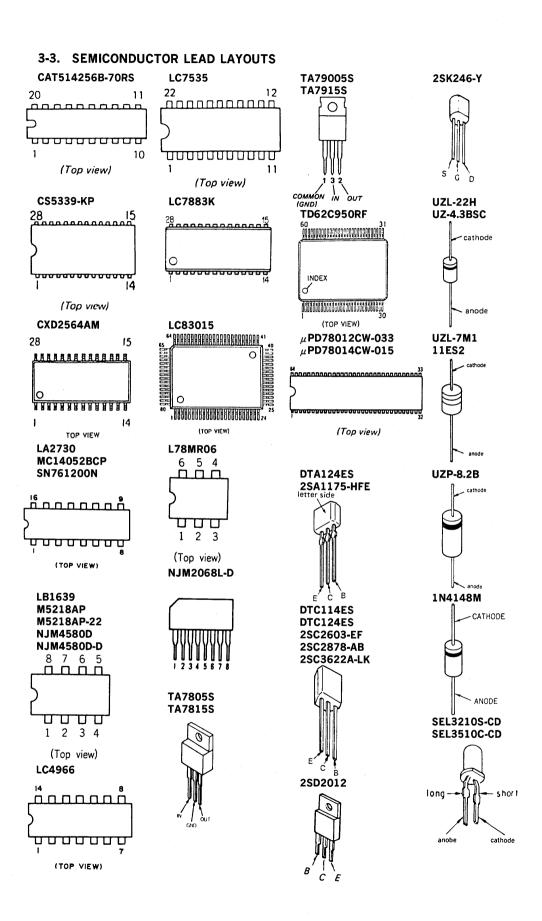
• IC202 LC83015E (Digital Signal Processor)

Pin No.	Pin Name	I/O	Function	
1-6	P0—P5	I/O	General purpose input/output ports (with pull-up resistor)	
7	ASI1	I	Audio data serial input 1 pin	
8	BCK1	I	Bit clock input pin used for ASI1 input (64fs or 32fs is applied).	
9	FS384I	I	384fs or 512fs input pin.	
10	LRCKI	I	L/R channel identification signal input pin ("H" for Lch; "L" for Rch).	
11	ASI2	I	Audio data serial input 2 pin	
12	BCK2	I	Bit clock input pin for ASI2 input (64fs or 32fs is applied).	
13	VDD1		+5V power pin	
14-17	TEST1-TEST4	I	Pins used for tests, normally connected to GND.	
18	VSS1		GND pin	
19	TEST5	0	Output pin used for test, normally open.	
20	RAS	0	RAS signal output pin used for access to external DRAM.	
21	CAS	0	CAS signal output pin used for access to external DRAM.	
22	DWRT	0	Data write signal output pin used for access to external memory.	
23	DREAD	0	Data read signal output pin used for access to external memory.	
24	CE/CS	0	Chip enable signal output pin used for activating external SRAM or pseudo SRAM.	
25-32	D7—D0	I/O	Data input/output pins used for communication with external memories (D0—D3 for one DRAM; D0—D7 for two DRAMs or SRAM or pseudo SRAM).	
33	VSS2	_	GND pin	
34-50	A0-A16	0	External memory address output pin	
51	VDD2		+5V power pin	
52	OSC1	I	Oscillator input pin (connected to VDD or VSS when oscillator is not used).	
53	OSC2	0	Oscillator output pin (open when oscillator is not used or external clock is used).	
54	VSS3		GND pin	
55	FS3840	0	384fs or 512fs output pin (through output of FS384I or self-run oscillating clock).	
56	FS1920	0	192fs or 256fs output pin (1/2 frequency division output of FS3840).	
57	FS1280	0	128fs output pin (1/3 or 1/4 frequency division output of FS3840).	
58	FS640	0	64fs or 32fs output pin (1/2 frequency division output of FS1280 or through output of BCK1).	
59	FS320	0	32fs or 16fs output pin (1/2 frequency division output of FS640).	
60	LRCKO	0	1fs output pin (1/64 frequency division output of FS640 or through output of LRCKI)	
61	AOWCK	0	2fs or 1fs output pin (1/32 frequency division output of FS640).	
62	ASO	0	Audio data serial output 1 pin	
63	AOTDF1	0	Audio data serial output 2 pin	
64	AOTDF2	0	Audio data serial output 3 pin	
65	SI	I	Input pin for serial data from control micro computer (8 bit data).	
66	SICK	I	Input pin for serial clock for SI.	
67	SIRQ	I	Serial input request signal input pin	
68	SIAK	0	Output pin for indicating that serial input being executed.	
69	SRDY	I	Input pin for ready signal indicating that serial data from control micro computer is complete.	
70	SO	0	Output pin for sending serial data to control micro computer (8 bit data).	
71	SOCK	I	Input pin for serial clock for SO.	

Pin No.	Pin Name	I/O	Function	
72	SORQ	I	Input pin for serial output request signal.	
73	SOAK	О	Output pin for indicating that serial output is being executed.	
74	VSS4	_	GND	
75	RES	I	set pin (with pull-up resistor).	
76	ĪNT	I	interrupt request input pin (with pull-up reistor).	
77	VDD3	_	+5V power pin	
78	SELC	I	Select pin (with pull-down resistor) used to determine whether system clock of LS8301 produced from FS384I (L) or from self-run oscillating clock (H).	
79	SACK1	I	Select pin (with pull-down resistor) used to determine whether 1/3 frequency division out of FS3840 is used (L) or 1/4 frequency division output is used (H) as FS1280.	
80	SACK2	I	Select pin (with pull-down resistor) used to determine whether each FS output clock is produced from FS384I, LRCKI and BCK1 (L) or from self-run oscillating clock (H).	

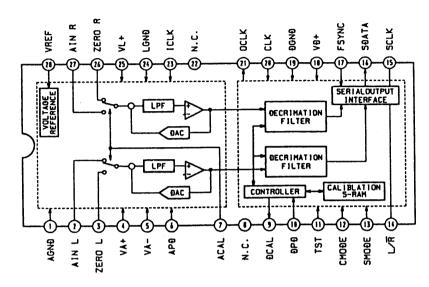
3-2. CIRCUIT BOARDS LOCATION



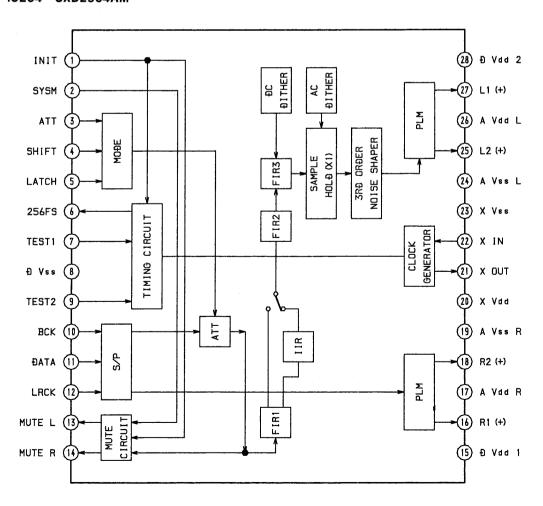


• IC Block Diagrams

IC201 CS5339-KP

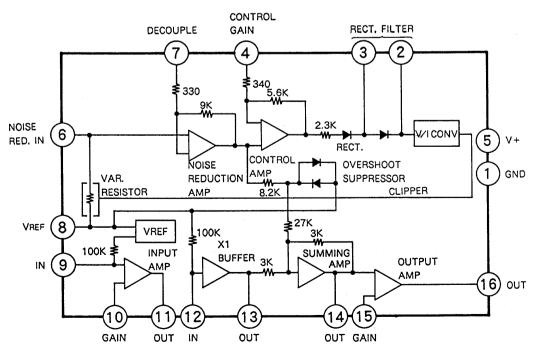


IC204 CXD2564AM

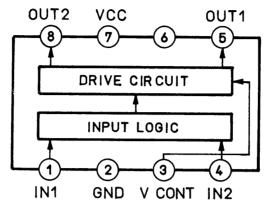


IC205 LC7883K DUT ж снг GND GND EMPH1 XOUT TESU MODE TEST CLK NIX Ω 4 (22) 20 TIMING GENERATOR RAM2 DAC RAM1 EMAR COEFFICIENT ROM ALU ATTENUATOR s. ►P 1 5 8 9 10 6 AVDD (TEST (Vref H DVDD BCLK (DATA LACK (INITB(EMPH2 TEST ATT SHIFT LATCH

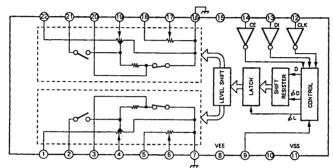
IC206 LA2730



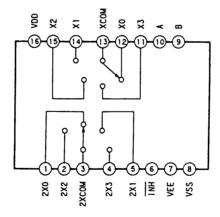
IC251 LB1639



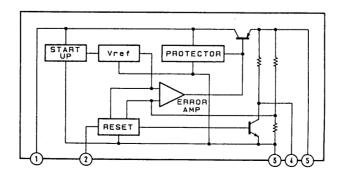
IC403 LC7535



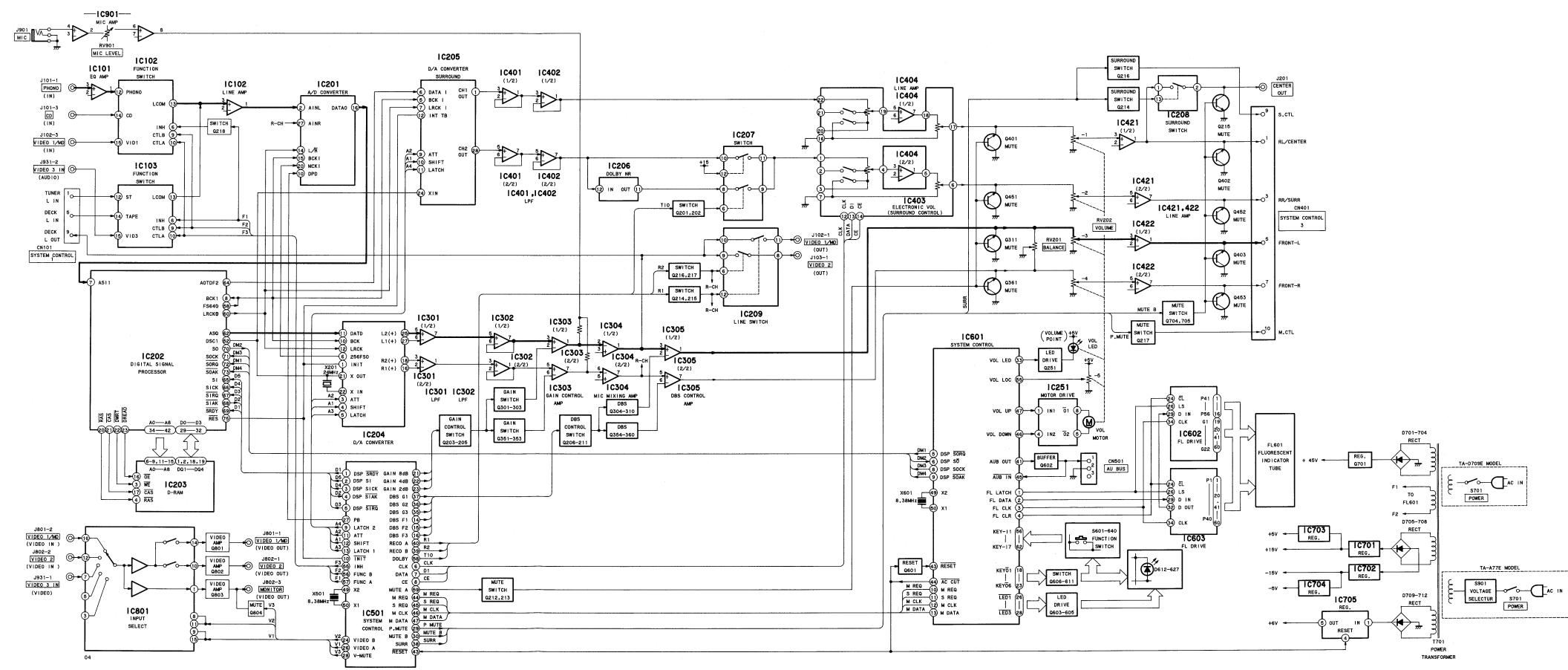
IC102, 103 MC14052 (AU FUNCTION board)



IC705 L78MR06



3-4. BLOCK DIAGRAM



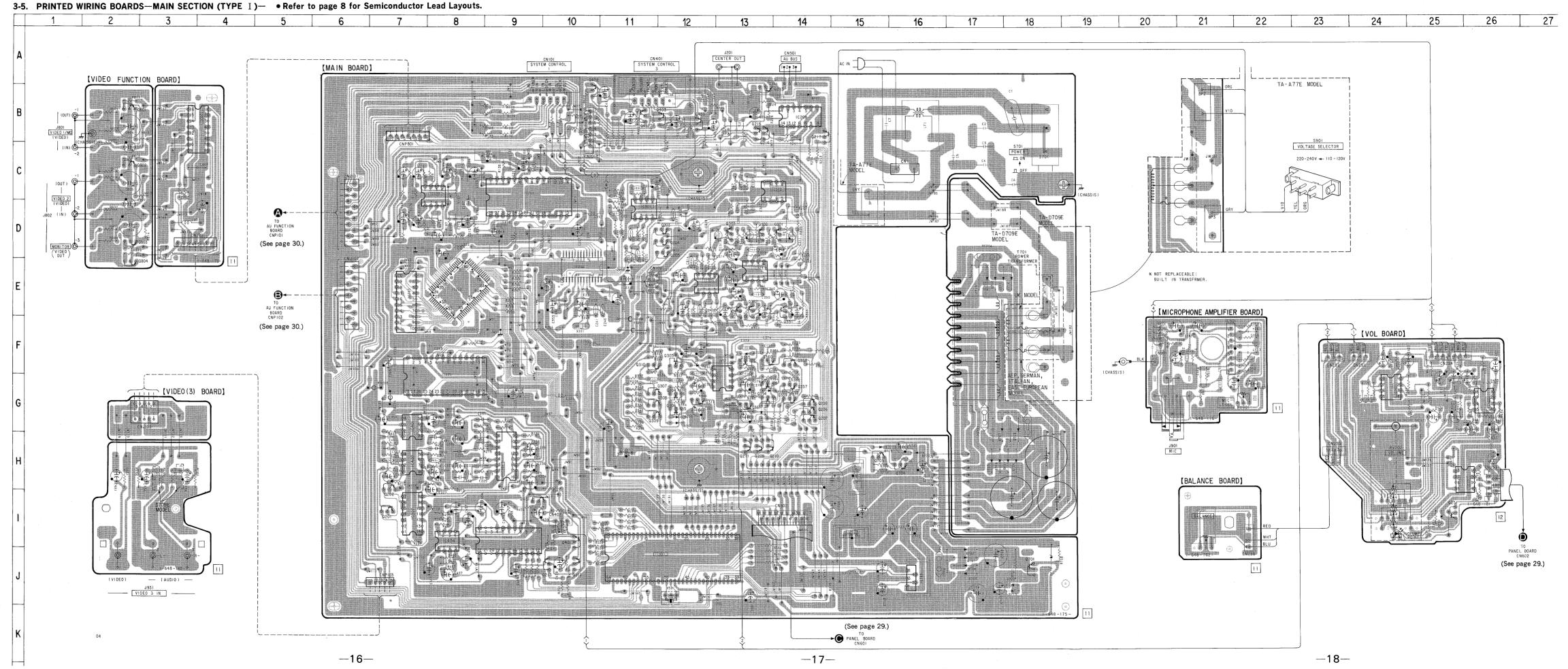
Semiconductor Location

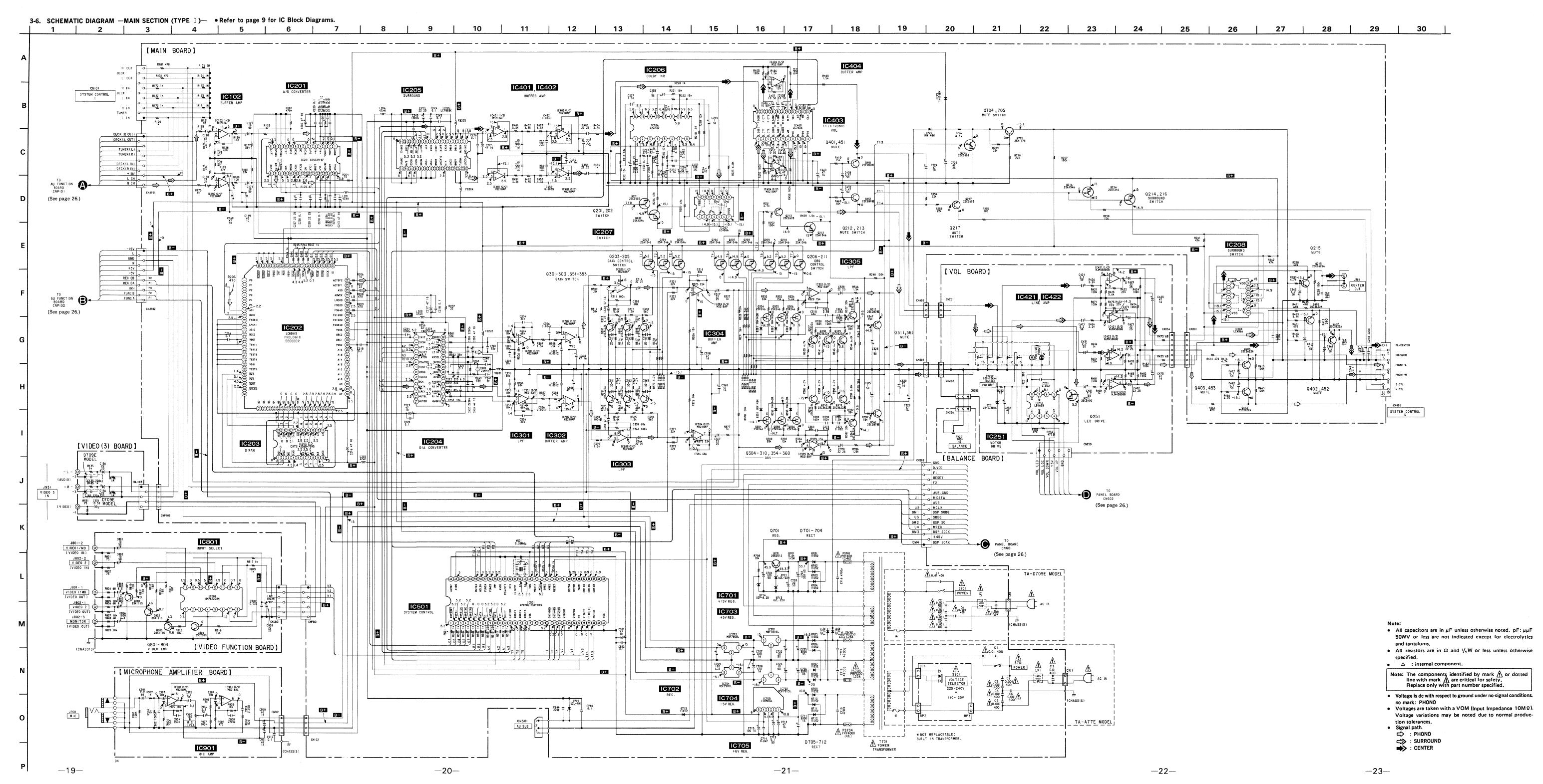
Ref. No.	Location	Ref. No.	Location
D251	I-25	IC801	B-3
D301	G-12	IC801	F-21
D302	F-12		
D303	G-12	Q201	I-7
D351	G-13	Q202	H-7
D352	F-13	Q203	D-12
D353	G-13	Q204	D-12
D701	J-17	Q205	D-12
D702 D703	J-17 J-17	Q206 0207	G-14 G-14
D703 D704	J-17 J-17	0208	G-14
D705	H-17	Q209	H-13
D706	H-18	Q210	H-13
D707	G-17	Q211	H-13
D708	G-18	Q212	J-10
D709	E-17	Q213	J-10
D710	E-17	Q214	B-13
D711	E-17	Q215	B-13
D712 D713	E-18 J-18	Q216 Q217	B-13 B-14
D713 D714	J-18	Q217 Q251	I-25
D715	J-14	Q301	D-14
D717	H-17	Q302	D-13
D718	H-17	Q303	D-13
D719	H-15	Q304	G-12
D720	H-16	Q305	F-12
D721	J-18	Q306	G-12
D722	B-14	Q307	G-11 G-11
IC102	. C-8	Q308 Q309	G-11
IC201	C-9	Q310	F-11
IC202	E-8	Q311	G-12
IC203	E-7	Q351	E-14
IC204	E-10	Q352	E-13
IC205	G-8	Q353	E-13
IC206	H-9	Q354	G-13
IC207 IC208	I-7 B-14	Q355 Q356	F-13 G-13
IC251	H-25	Q356 Q357	G-13 G-14
IC301	D-11	Q357 Q358	F-14
IC302	C-13	Q359	G-14
IC303	E-13	Q360	F-13
IC304	E-12	Q361	G-13
IC305	G-13	Q401	I-10
IC401	G-7	Q402	B-10
IC402 IC403	H-7 I-9	Q403 0451	B-12 I-9
IC403	1.8	Q451 Q452	B-11
IC421	G-24	Q452 Q453	B-12
IC422	G-26	Q701	J-18
IC501	J-12	Q704	H-16
IC701	H-15	Q705	H-15
IC702	I-15	Q801	B-2
IC703	H-11	Q802	C-2
IC704 IC705	C-9 J-16	Q803	D-2
10/03	3-10	Q804	E-2

Note

—15—

- o---: parts extracted from the component side.
- Pattern on the side which is seen.
- o---- : Jumper wire connected to the ground pattern on the component side.





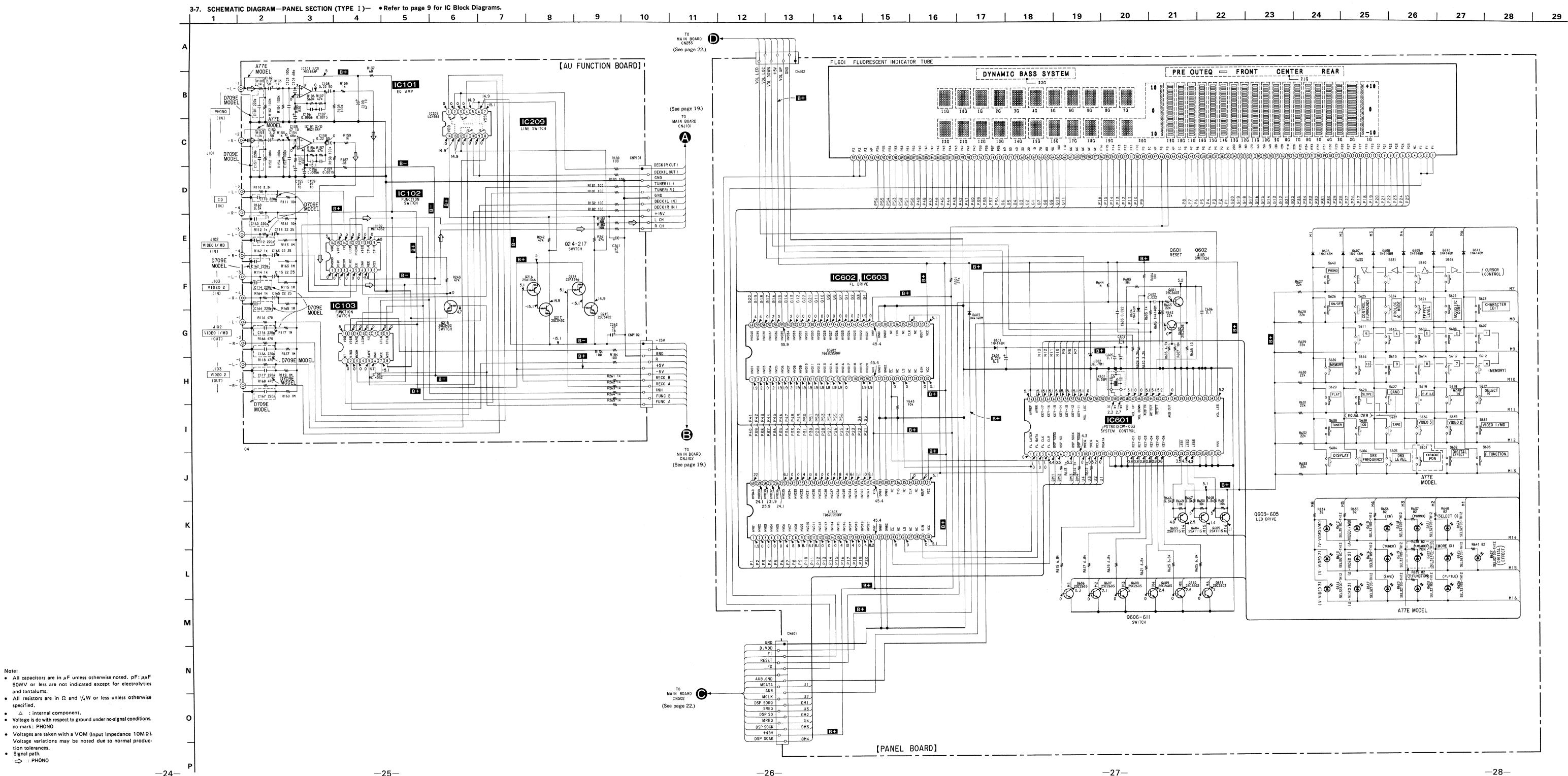
and tantalums.

△ : internal component.

no mark: PHONO

tion tolerances. Signal path. ⇒ : PHONO

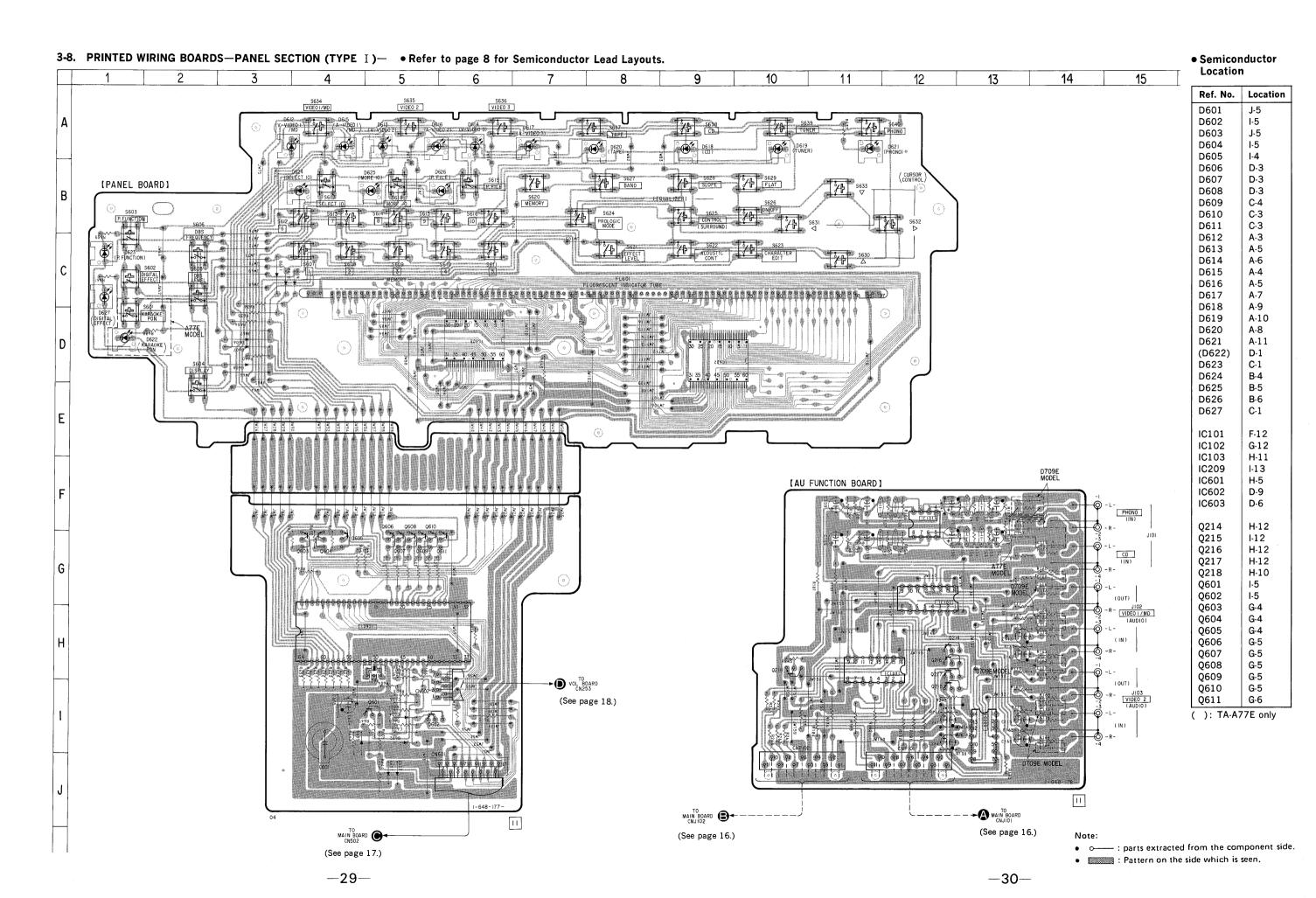
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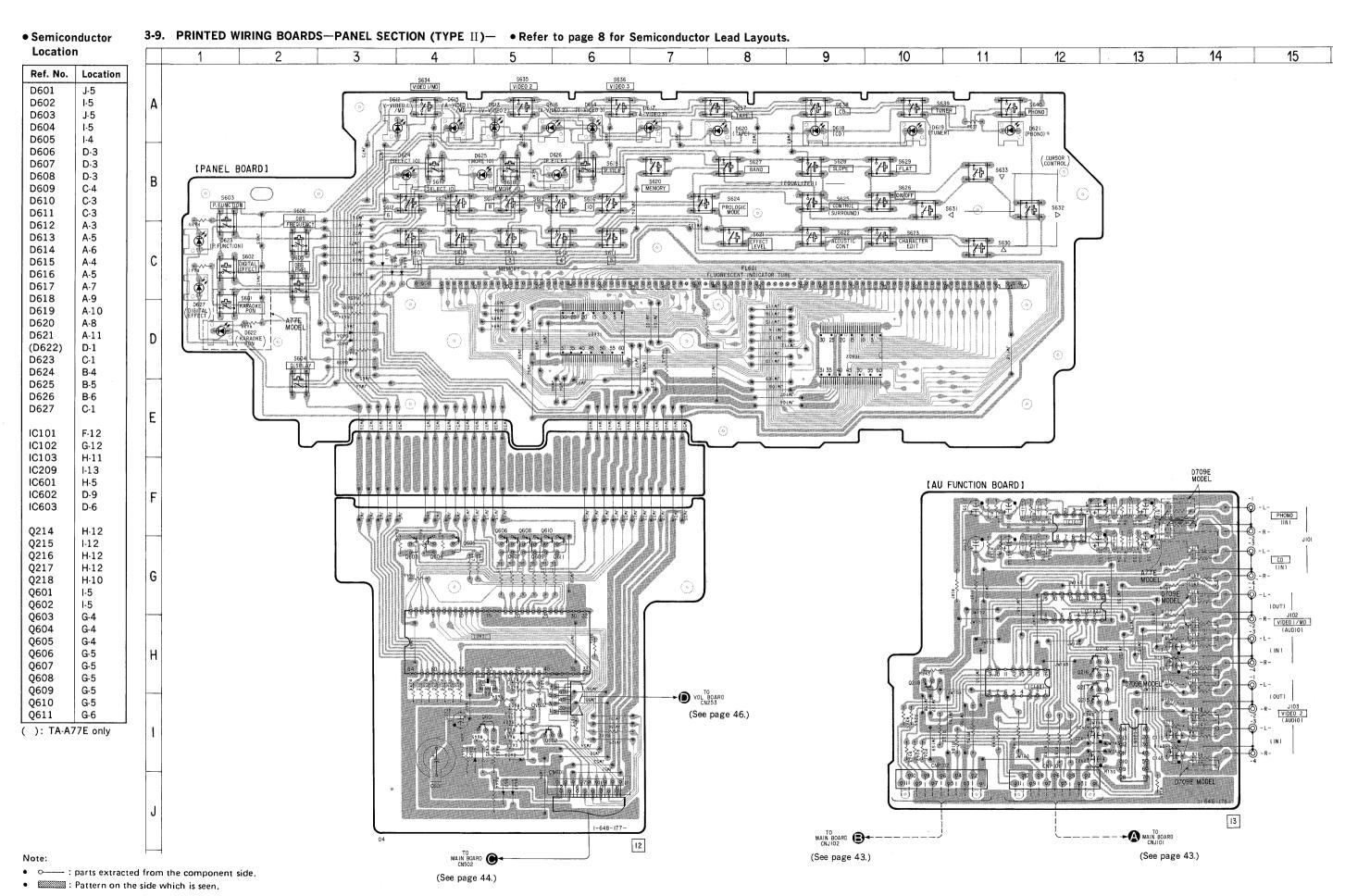


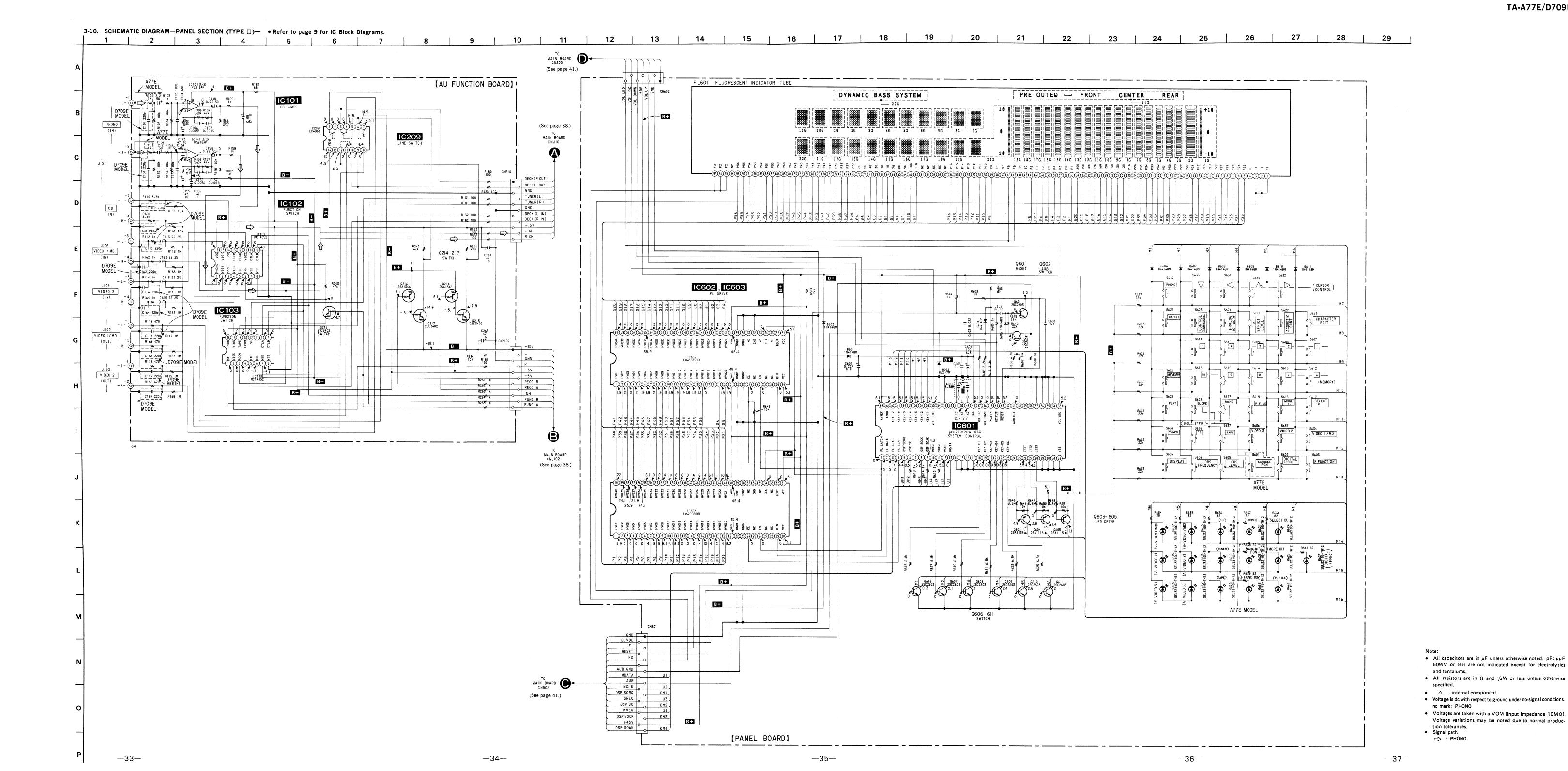
-26-

-25-

-24-







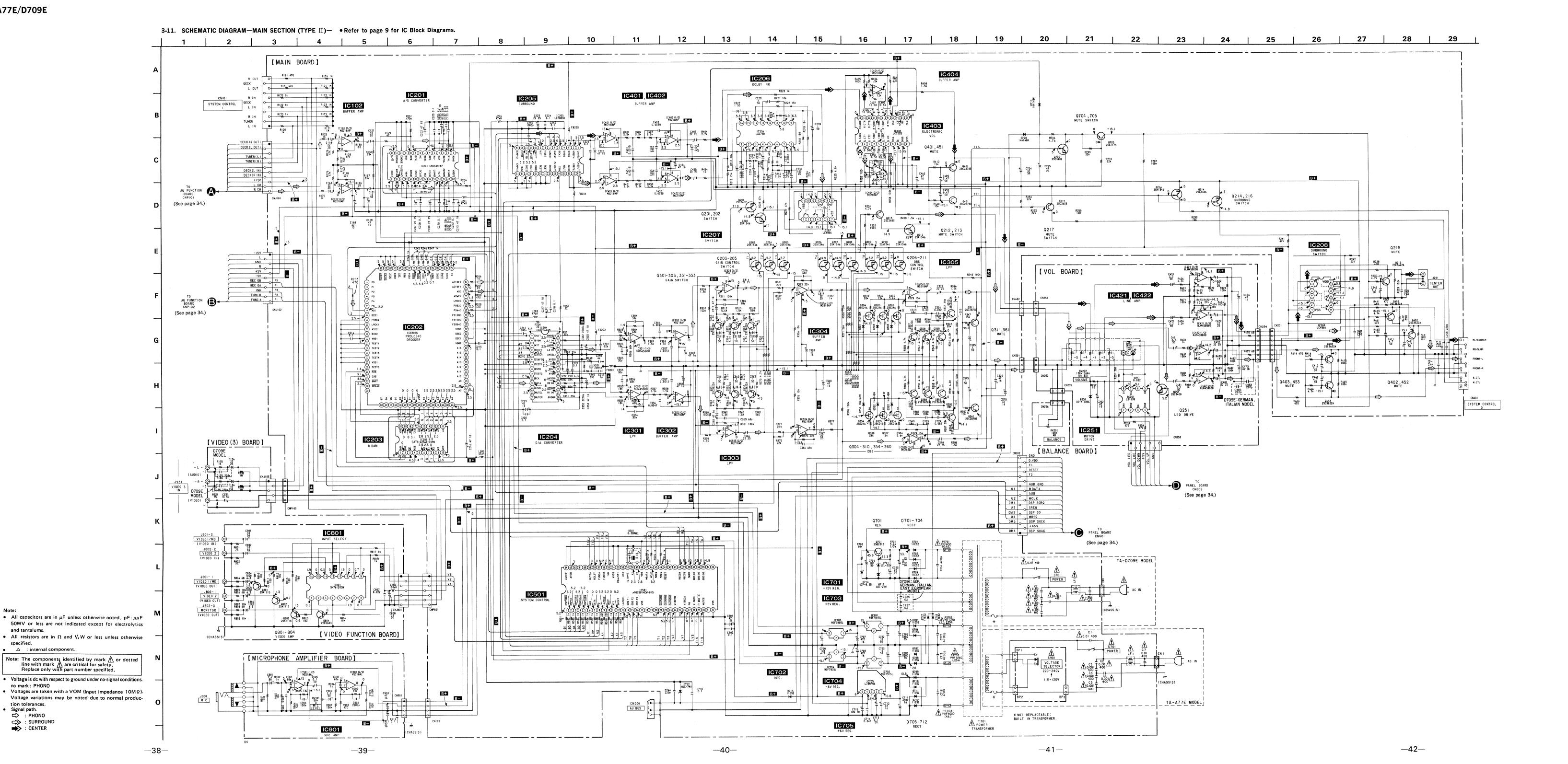
and tantalums.

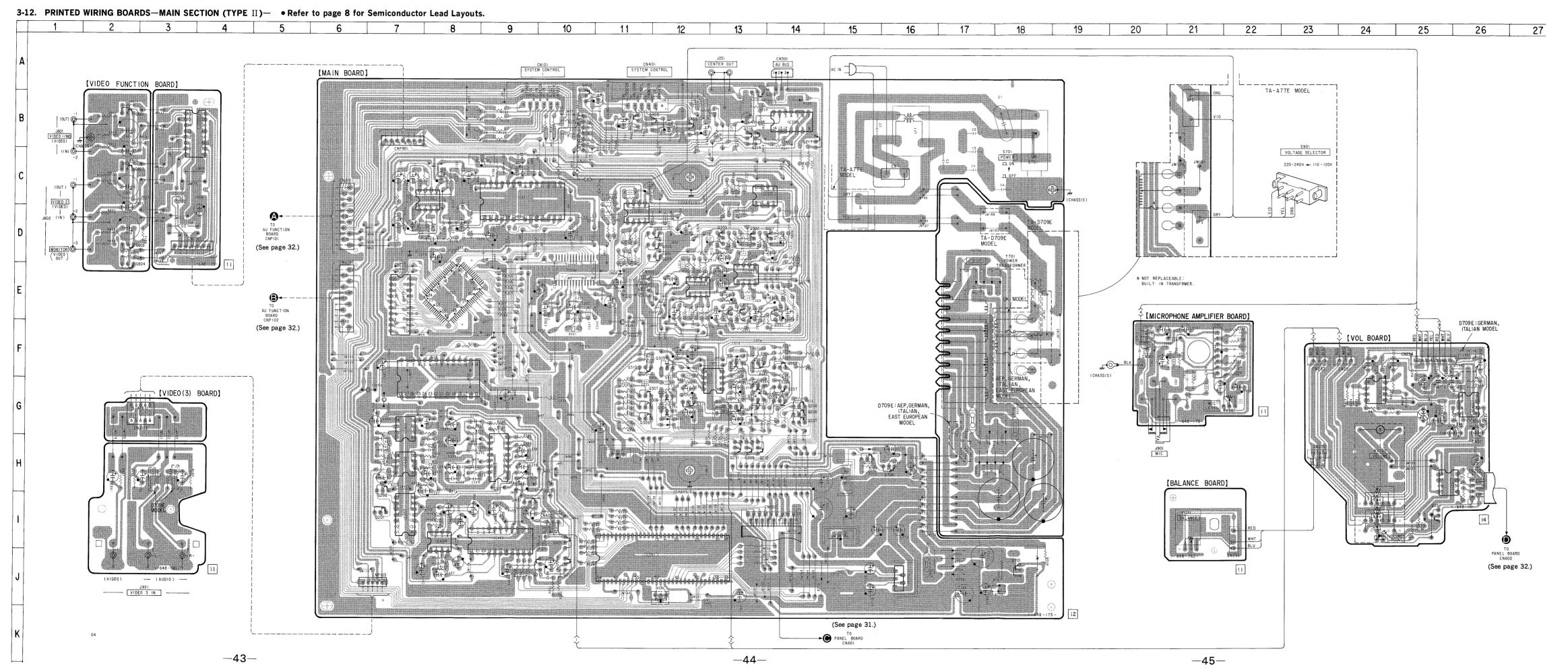
no mark: PHONO

tion tolerances.

⇒ : SURROUND ⇒ : CENTER

specified.





Semiconductor Location

Semiconductor Location				
Ref. No.	Location	Ref. No.	Location	
D251	1-25	IC801	B-3	
D301	G-12	IC901	F-21	
D302 D303	F-12 G-12	Q201	l-7	
D353	G-12	Q201	H-7	
D352	F-13	Q203	D-12	
D353	G-13	Q204	D-12	
D701	J-17	Q205	D-12	
D702 D703	J-17 J-17	Q206 Q207	G-14 G-14	
D703	J-17	Q208	G-14	
D705	H-17	Q209	H-13	
D706	H-18	Q210	H-13	
D707	G-17	Q211	H-13	
D708 D709	G-18 E-17	Q212 Q213	J-10 J-10	
D710	E-17	Q214	B-13	
D711	E-17	Q215	B-13	
D712	E-18	Q216	B-13	
D713	J-18	Q217	B-14 I-25	
D714 D715	J-18 J-14	Q251 Q301	D-14	
D717	H-17	0302	D-13	
D718	H-17	Q303	D-13	
D719	H-15	Q304	G-12	
D720	H-16	Q305 Q306	F-12 G-12	
D721 D722	J-18 B-14	Q306 Q307	G-12 G-11	
		Q308	G-11	
IC102	C-8	Q309	G-11	
IC201	C-9	Q310	F-11	
IC202 IC203	E-8 E-7	Q311 Q351	G-12 E-14	
IC204	E-10	0352	E-13	
IC205	G-8	Q353	E-13	
IC206	H-9	Q354	G-13	
IC207 IC208	I-7 B-14	Q355 Q356	F-13 G-13	
IC251	H-25	Q350 Q357	G-13 G-14	
IC301	D-11	Q358	F-14	
IC302	C-13	Q359	G-14	
IC303	E-13	Q360	F-13	
IC304 IC305	E-12 G-13	Q361 Q401	G-13 I-10	
IC401	G-7	Q401 Q402	B-10	
IC402	H-7	Q403	B-12	
IC403	1.9	Q451	I-9	
IC404	I-8	Q452	B-11	
IC421 IC422	G-24 G-26	Q453 Q701	B-12 J-18	
IC501	J-12	Q701 Q704	H-16	
IC701	H-15	Q705	H-15	
IC702	I-15	Q801	B-2	
IC703 IC704	H-11 C-9	Q802 Q803	C-2 D-2	
IC704	J-16	Q803 Q804	E-2	
	L	<u></u>		

Note:

- o---: parts extracted from the component side.
- Pattern on the side which is seen.
- • : Jumper wire connected to the ground pattern on

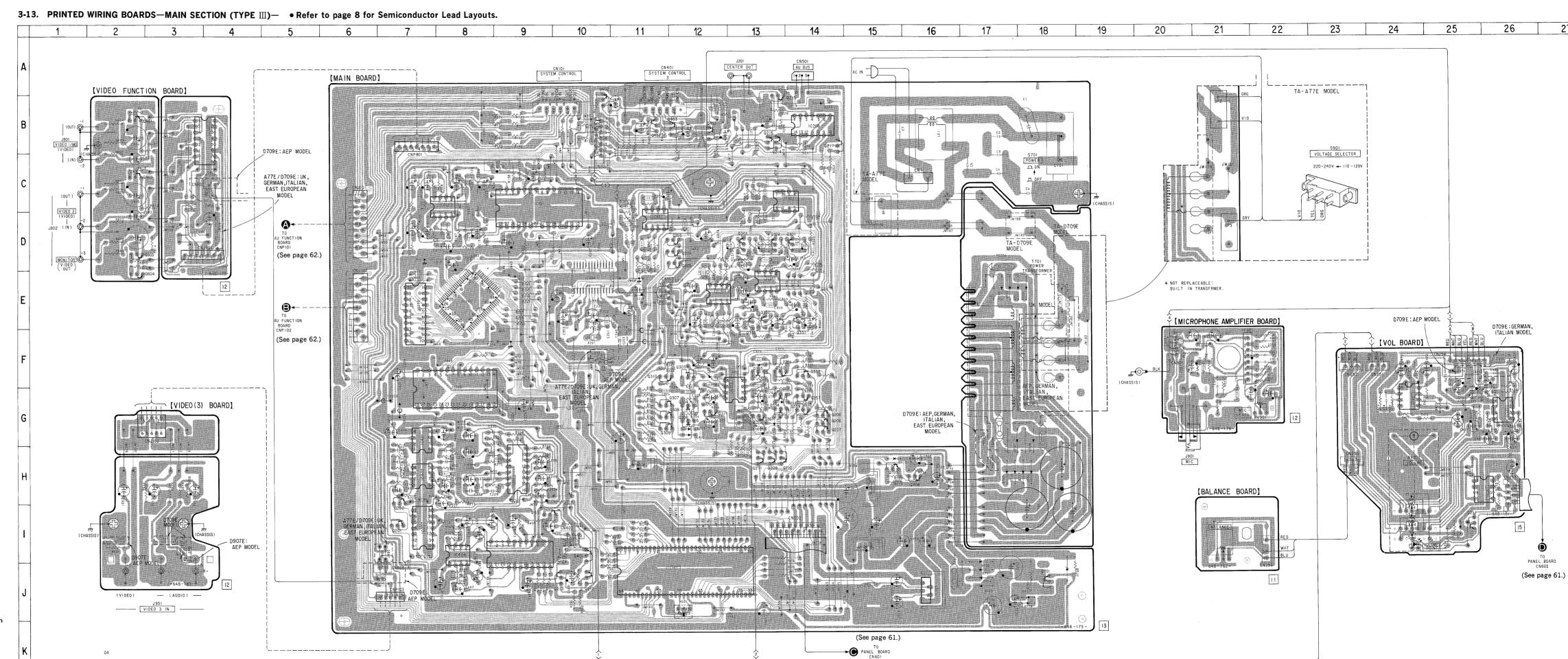
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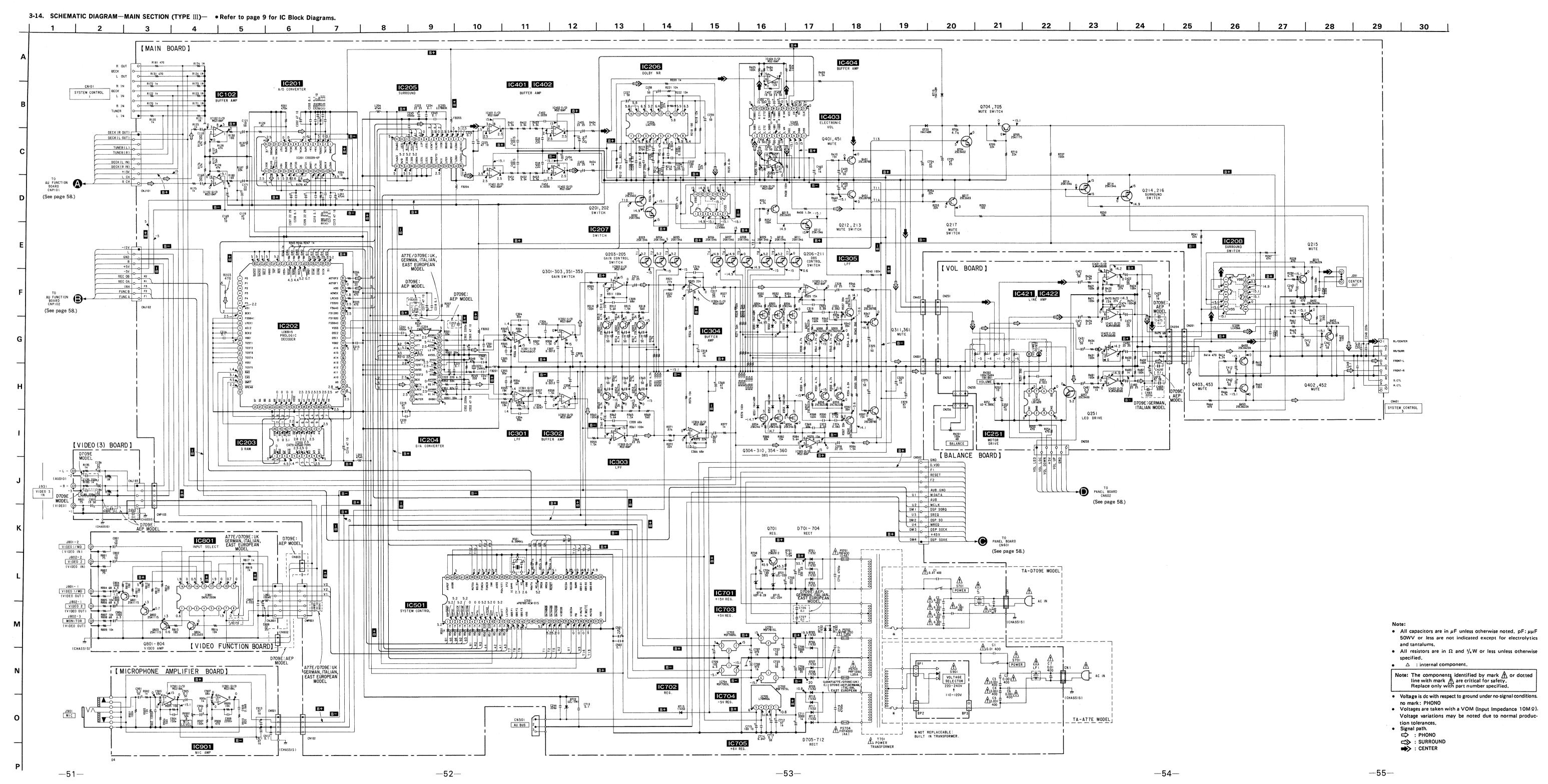
Semiconductor Location

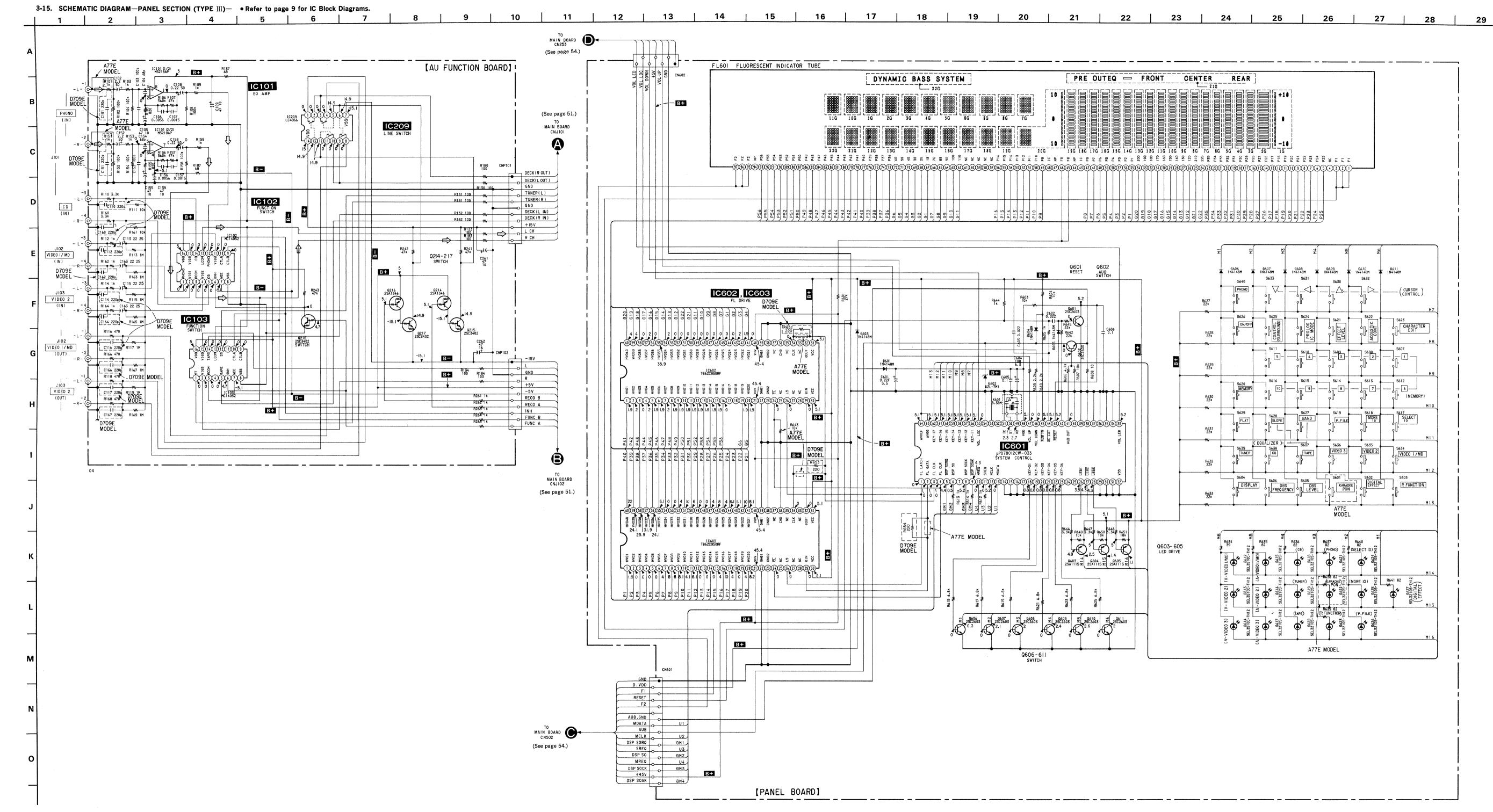
Semico	nductor L	ocation	
Ref. No.	Location	Ref. No.	Location
D251	I-25	IC801	B-3
D301	G-12	IC901	F-21
D302	F-12		
D303	G-12	Q201	1-7
D351	G-13	Q202	H-7
D352	F-13	Q203	D-12
D353	G-13	Q204	D-12
D701	J-17	Q205	D-12
D702 D703	J-17	Q206 Q207	G-14 G-14
D703 D704	J-17 J-17	Q207 Q208	G-14 G-14
D704 D705	H-17	Q209	H-13
D705	H-18	Q210	H-13
D707	G-17	Q211	H-13
D708	G-18	Q212	J-10
D709	E-17	Q213	J-10
D710	E-17	Q214	B-13
D711	E-17	Q215	B-13
D712	E-18	Q216	B-13
D713	J-18	Q217	B-14
D714	J-18	Q251	1-25
D715	J-14	Q301	D-14
D717	H-17	Q302	D-13
D718	H-17	Q303	D-13
D719	H-15	Q304	G-12
D720	H-16	Q305	F-12
D721 D722	J-18 B-14	Q306	G-12 G-11
D/22	B-14	Q307 Q308	G-11
IC102	C-8	Q308 Q309	G-11
IC201	C-9	Q303 Q310	F-11
IC202	E-8	0311	G-12
IC203	E-7	Q351	E-14
IC204	E-10	0352	E-13
IC205	G-8	Q353	E-13
IC206	H-9	Q354	G-13
IC207	I-7	Q355	F-13
IC208	B-14	Q356	G-13
IC251	H-25	Q357	G-14
IC301	D-11	Q358	F-14
IC302	C-13	Q359	G-14
IC303	E-13	Q360	F-13
1C304	E-12	Q361	G-13
IC305 IC401	G-13 G-7	Q401 0402	I-10 B-10
IC401	H-7	Q402 Q403	B-12
IC402	I-7 I-9	Q403 Q451	1.9
IC404	I-8	Q452	B-11
IC421	G-24	Q453	B-12
IC422	G-26	Q701	J-18
IC501	J-12	Q704	H-16
IC701	H-15	Q705	H-15
IC702	1-15	Q801	B-2
IC703	H-11	Q802	C-2
IC704	C-9	Q803	D-2
IC705	J-16	Q804	E-2

Note:

- o---: parts extracted from the component side.
- Pattern on the side which is seen.
- O : Jumper wire connected to the ground pattern on the component side.







All capacitors are in μF unless otherwise noted. pF: μμF
 50WV or less are not indicated except for electrolytics

• All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise

Voltage is dc with respect to ground under no-signal conditions.

Voltages are taken with a VOM (Input Impedance 10MΩ).
 Voltage variations may be noted due to normal produc-

and tantalums.

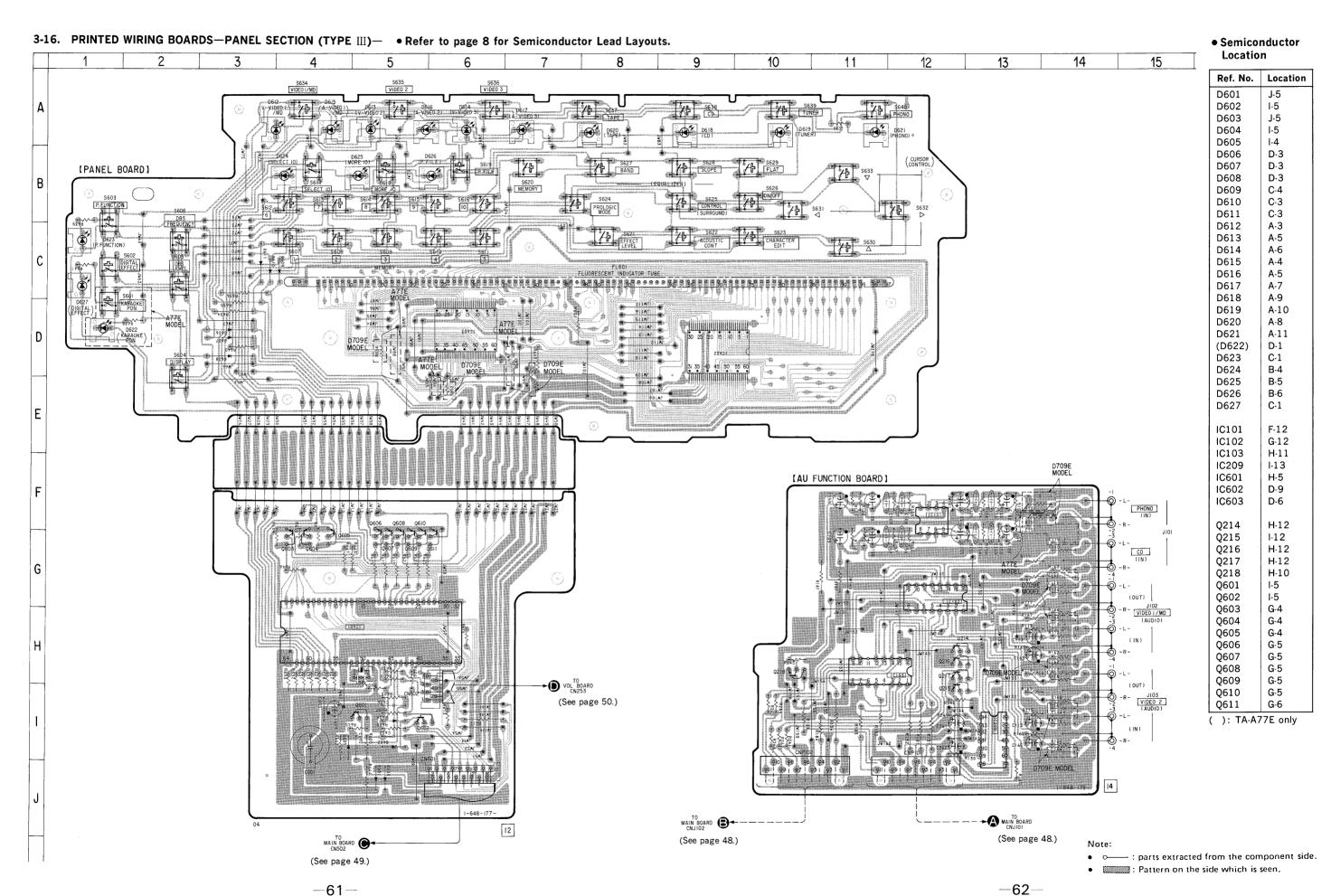
no mark: PHONO

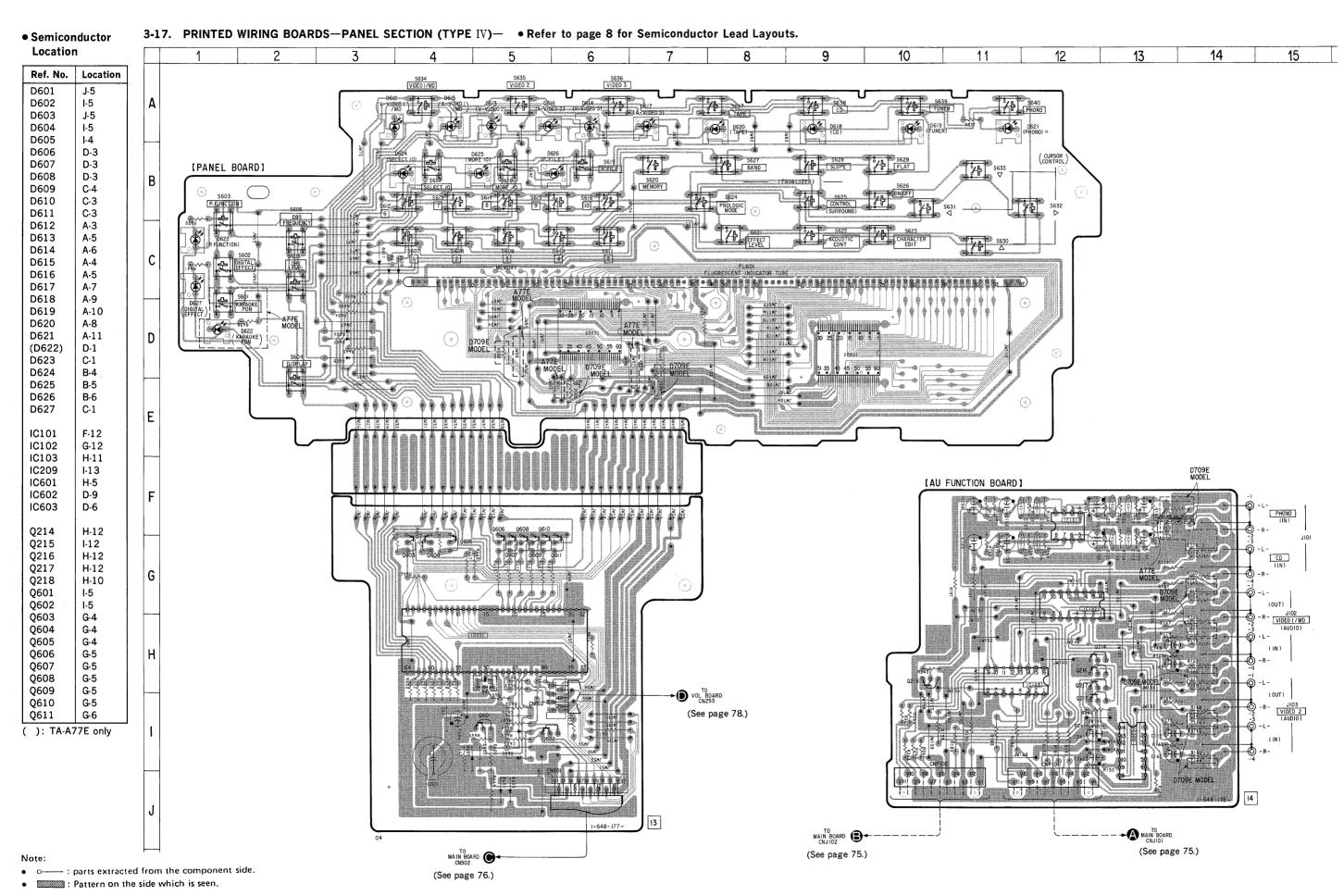
tion tolerances.
Signal path.

PHONO

♠ △ : internal component.

specified.





All capacitors are in μF unless otherwise noted. pF: μμF
 50WV or less are not indicated except for electrolytics

All resistors are in Ω and ¼W or less unless otherwise

Voltage is dc with respect to ground under no-signal conditions.

Voltages are taken with a VOM (Input Impedance 10MΩ).
 Voltage variations may be noted due to normal produc-

and tantalums.

△ : internal component.

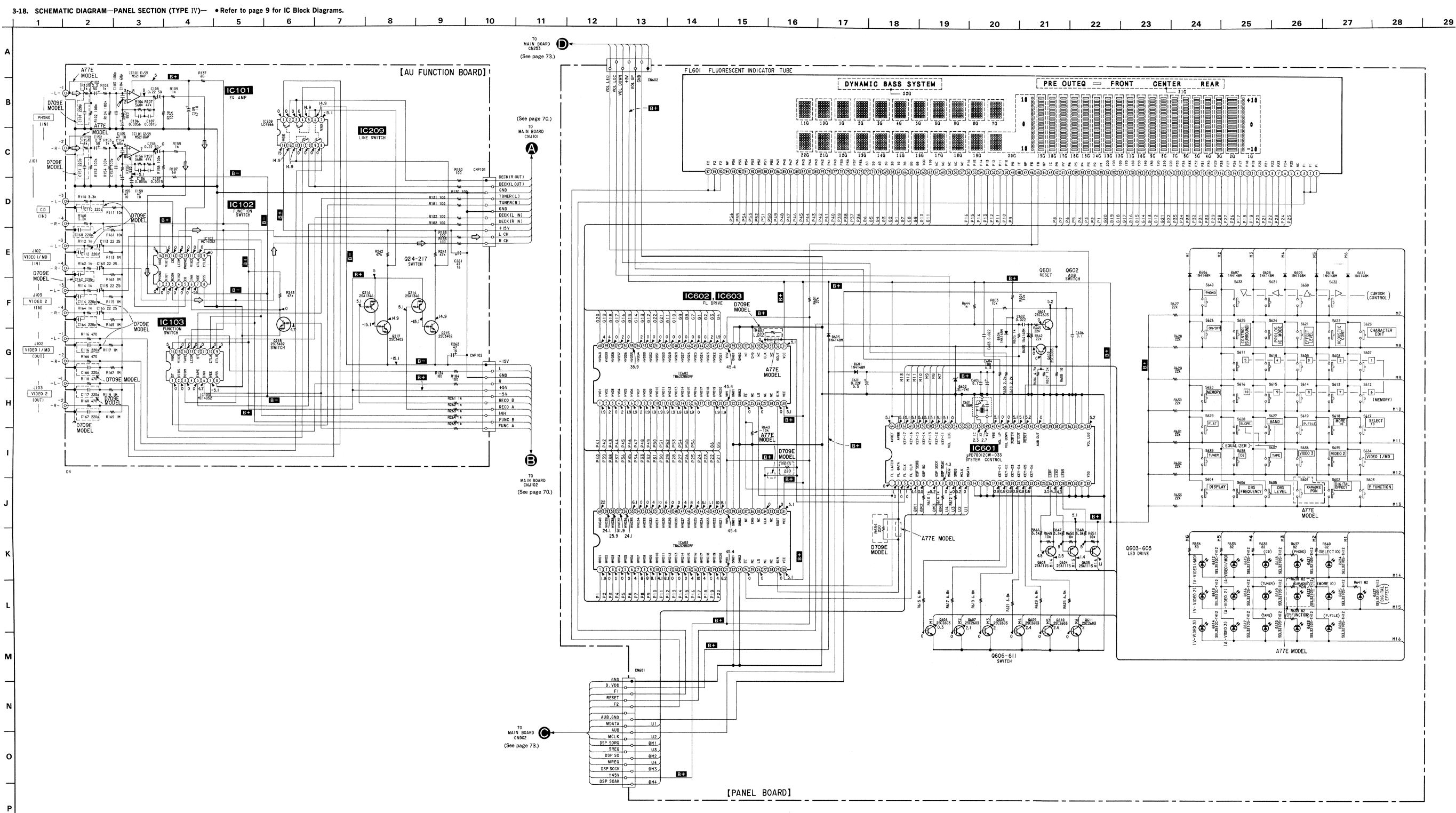
no mark: PHONO

tion tolerances.

• Signal path.

⇒ : PHONO

specified.



-65-

and tantalums.

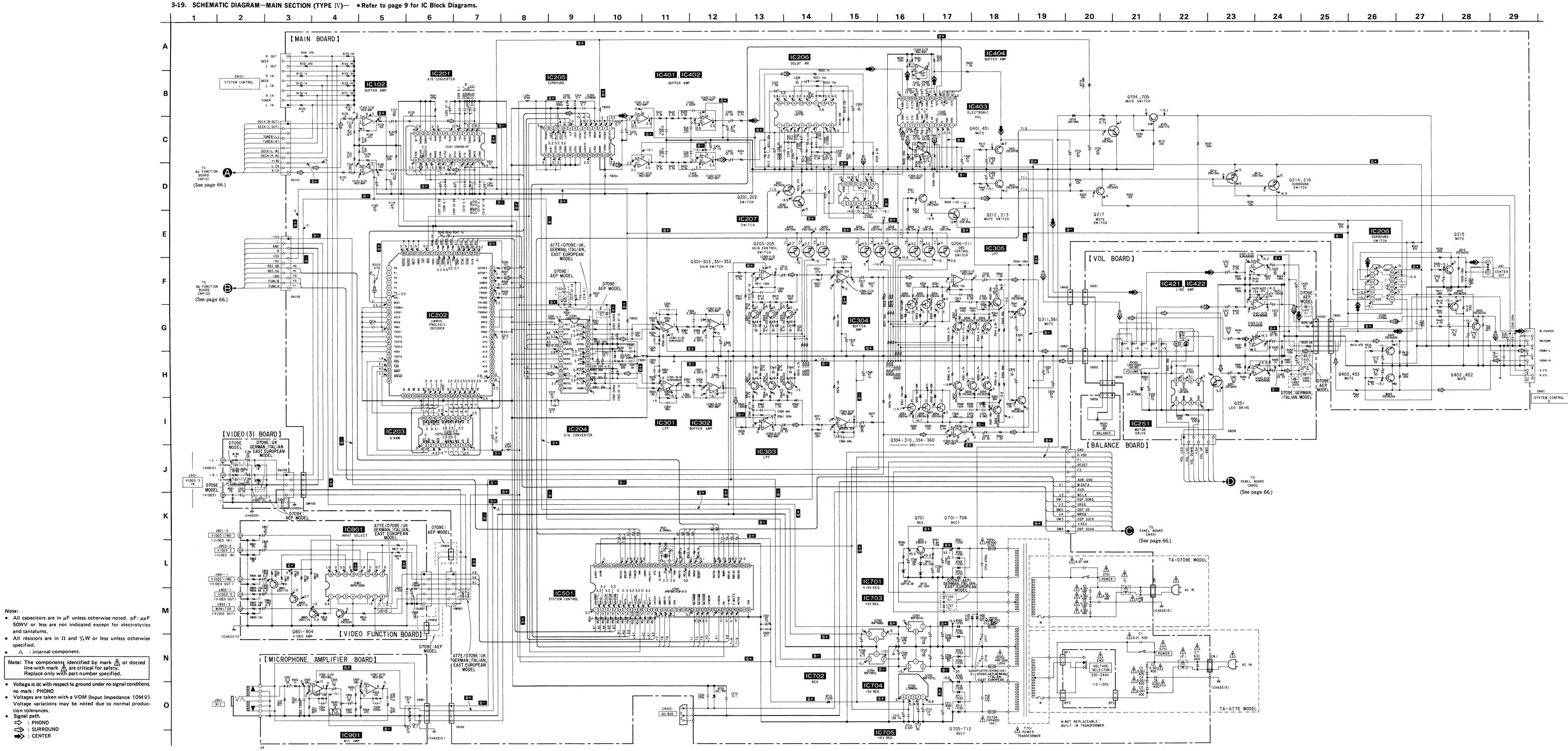
no mark: PHONO

tion tolerances. Signal path. ⇒ : PHONO

⇒ : SURROUND : CENTER

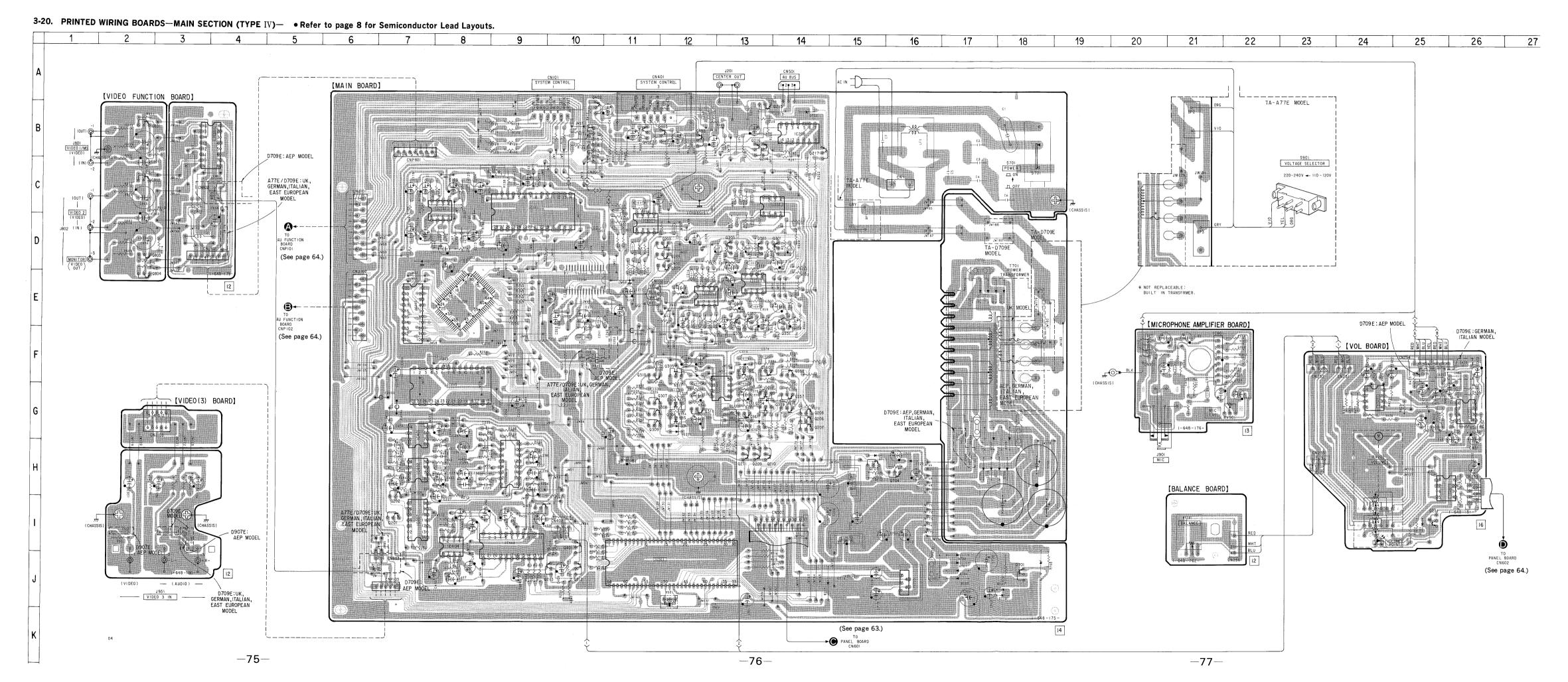
△ : internal component.

specified.



-72-

-73-



Semiconductor Location

D251 I-25 IC801 B-3 D301 G-12 IC901 F-21 D302 F-12 F-12 F-21 D303 G-12 Q201 I-7 D351 G-13 Q202 H-7 D352 F-13 Q203 D-12 D701 J-17 Q205 D-12 D701 J-17 Q206 G-14 D702 J-17 Q206 G-14 D703 J-17 Q207 G-14 D703 J-17 Q208 G-14 D704 J-17 Q209 H-13 D705 H-17 Q209 H-13 D706 H-18 Q210 H-13 D707 G-17 Q211 H-13 D707 G-17 Q211 H-13 D709 E-17 Q213 J-10 D710 E-17 Q214 B-13 D711 E-17 Q215 B-13
D302 F-12 D303 G-12 Q201 I-7 D351 G-13 Q202 H-7 D352 F-13 Q203 D-12 D353 G-13 Q204 D-12 D701 J-17 Q205 D-12 D702 J-17 Q206 G-14 D703 J-17 Q207 G-14 D704 J-17 Q208 G-14 D705 H-17 Q209 H-13 D706 H-18 Q210 H-13 D707 G-17 Q211 H-13 D707 G-17 Q211 H-13 D708 G-18 Q212 J-10 D709 E-17 Q213 J-10 D710 E-17 Q214 B-13 D711 E-17 Q215 B-13 D712 E-18 Q216 B-13 D713 J-18 Q217 B-14 D714 J-18
D303 G-12 Q201 I-7 D351 G-13 Q202 H-7 D352 F-13 Q203 D-12 D353 G-13 Q204 D-12 D701 J-17 Q205 D-12 D702 J-17 Q206 G-14 D703 J-17 Q207 G-14 D704 J-17 Q208 G-14 D705 H-17 Q209 H-13 D706 H-18 Q210 H-13 D707 G-17 Q211 H-13 D707 G-17 Q211 H-13 D709 E-17 Q213 J-10 D710 E-17 Q214 B-13 D711 E-17 Q215 B-13 D712 E-18 Q216 B-13 D713 J-18 Q217 B-14 D714 J-18 Q251 I-25 D715 J-14 Q301 D-14
D351 G-13 Q202 H-7 D352 F-13 Q203 D-12 D353 G-13 Q204 D-12 D701 J-17 Q205 D-12 D702 J-17 Q206 G-14 D703 J-17 Q207 G-14 D704 J-17 Q208 G-14 D705 H-17 Q209 H-13 D706 H-18 Q210 H-13 D707 G-17 Q211 H-13 D707 G-17 Q211 H-13 D708 G-18 Q212 J-10 D709 E-17 Q213 J-10 D710 E-17 Q214 B-13 D711 E-17 Q215 B-13 D712 E-18 Q216 B-13 D713 J-18 Q217 B-14 D714 J-18 Q251 I-25 D715 J-14 Q301 D-14
D353 G-13 Q204 D-12 D701 J-17 Q205 D-12 D702 J-17 Q206 G-14 D703 J-17 Q207 G-14 D704 J-17 Q208 G-14 D705 H-17 Q209 H-13 D706 H-18 Q210 H-13 D707 G-17 Q211 H-13 D708 G-18 Q212 J-10 D709 E-17 Q213 J-10 D710 E-17 Q214 B-13 D711 E-17 Q215 B-13 D712 E-18 Q216 B-13 D713 J-18 Q217 B-14 D714 J-18 Q251 L-25 D715 J-14 Q301 D-14 D717 H-17 Q302 D-13 D719 H-15 Q304 G-12 D720 H-16 Q305 F-12
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D705 H-17 Q209 H-13 D706 H-18 Q210 H-13 D707 G-17 Q211 H-13 D708 G-18 Q212 J-10 D709 E-17 Q213 J-10 D710 E-17 Q214 B-13 D711 E-17 Q215 B-13 D712 E-18 Q216 B-13 D713 J-18 Q217 B-14 D714 J-18 Q251 I-25 D715 J-14 Q301 D-14 D717 H-17 Q302 D-13 D718 H-17 Q303 D-13 D719 H-15 Q304 G-12 D720 H-16 Q305 F-12 D721 J-18 Q306 G-12 D722 B-14 Q307 G-11 IC201 C-9 Q310 F-11 IC202 E-8 Q311 G-12
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D707 G-17 Q211 H-13 D708 G-18 Q212 J-10 D709 E-17 Q213 J-10 D710 E-17 Q214 B-13 D711 E-17 Q215 B-13 D712 E-18 Q216 B-13 D713 J-18 Q217 B-14 D714 J-18 Q251 I-25 D715 J-14 Q301 D-14 D717 H-17 Q302 D-13 D718 H-17 Q303 D-13 D719 H-15 Q304 G-12 D720 H-16 Q305 F-12 D721 J-18 Q306 G-12 D722 B-14 Q307 G-11 IC102 C-8 Q309 G-11 IC201 C-9 Q310 F-11 IC202 E-8 Q311 G-12 IC203 E-7 Q351 E-14
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D715 J-14 Q301 D-14 D717 H-17 Q302 D-13 D718 H-17 Q303 D-13 D719 H-15 Q304 G-12 D720 H-16 Q305 F-12 D721 J-18 Q306 G-12 D722 B-14 Q307 G-11 C0308 G-11 Q308 G-11 IC201 C-9 Q310 F-11 IC202 E-8 Q311 G-12 IC203 E-7 Q351 E-14 IC204 E-10 Q352 E-13 IC205 G-8 Q353 E-13 IC206 H-9 Q354 G-13 IC207 I-7 Q355 F-13 IC208 B-14 Q356 G-13 IC251 H-25 Q357 G-14 IC302 C-13 Q359 G-14 IC303 E-13 Q360 F-13 <
D717 H-17 Q302 D-13 D718 H-17 Q303 D-13 D719 H-15 Q304 G-12 D720 H-16 Q305 F-12 D721 J-18 Q306 G-12 D722 B-14 Q307 G-11 Q308 G-11 Q308 G-11 IC201 C-9 Q310 F-11 IC202 E-8 Q311 G-12 IC203 E-7 Q351 E-14 IC204 E-10 Q352 E-13 IC205 G-8 Q353 E-13 IC206 H-9 Q354 G-13 IC207 I-7 Q355 F-13 IC208 B-14 Q356 G-13 IC251 H-25 Q357 G-14 IC302 C-13 Q359 G-14 IC303 E-13 Q360 F-13 IC304 E-12 Q361 G-13
D718 H-17 Q303 D-13 D719 H-15 Q304 G-12 D720 H-16 Q305 F-12 D721 J-18 Q306 G-12 D722 B-14 Q307 G-11 Q308 G-11 Q308 G-11 IC102 C-8 Q309 G-11 IC201 C-9 Q310 F-11 IC202 E-8 Q311 G-12 IC203 E-7 Q351 E-14 IC204 E-10 Q352 E-13 IC205 G-8 Q353 E-13 IC206 H-9 Q354 G-13 IC207 I-7 Q355 F-13 IC208 B-14 Q356 G-13 IC251 H-25 Q357 G-14 IC301 D-11 Q358 F-14 IC302 C-13 Q359 G-14 IC303 E-13 Q360 F-13 <
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D721 J-18 Q306 G-12 D722 B-14 Q307 G-11 Q308 G-11 Q308 G-11 IC102 C-8 Q309 G-11 IC201 C-9 Q310 F-11 IC202 E-8 Q311 G-12 IC203 E-7 Q351 E-14 IC204 E-10 Q352 E-13 IC205 G-8 Q353 E-13 IC206 H-9 Q354 G-13 IC207 I-7 Q355 F-13 IC208 B-14 Q356 G-13 IC251 H-25 Q357 G-14 IC301 D-11 Q358 F-14 IC302 C-13 Q359 G-14 IC303 E-13 Q360 F-13 IC304 E-12 Q361 G-13
D722 B·14 Q307 G·11 IC102 C·8 Q309 G·11 IC201 C·9 Q310 F·11 IC202 E·8 Q311 G·12 IC203 E·7 Q351 E·14 IC204 E·10 Q352 E·13 IC205 G·8 Q353 E·13 IC206 H·9 Q354 G·13 IC207 I·7 Q355 F·13 IC208 B·14 Q356 G·13 IC251 H·25 Q357 G·14 IC301 D·11 Q358 F·14 IC302 C·13 Q359 G·14 IC303 E·13 Q360 F·13 IC304 E·12 Q361 G·13
C102 C-8 Q308 G-11
C201 C-9 Q310 F-11 C202 E-8 Q311 G-12 C203 E-7 Q351 E-14 C204 E-10 Q352 E-13 C205 G-8 Q353 E-13 C206 H-9 Q354 G-13 C207 I-7 Q355 F-13 C208 B-14 Q356 G-13 C251 H-25 Q357 G-14 C301 D-11 Q358 F-14 C302 C-13 Q359 G-14 C303 E-13 Q360 F-13 C304 E-12 Q361 G-13 C304 C301 C301 C301 C302 C-13 Q360 C-13 C304 C-12 Q361 G-13 C304 C-12 C301 C301 C301 C305 C-15 C301 C301 C301 C306 C-15 C301 C301 C301 C307 C-15 C301 C301 C301 C308 C-15 C301 C301 C301 C309 C-15 C301 C301 C301 C309 C-15 C301 C301 C301 C301 C-15 C301 C301 C301 C302 C-15 C301 C301 C301 C303 C-15 C301 C301 C301 C304 C-15 C301 C301 C301 C305 C-15 C301 C301 C301 C307 C-15 C301 C301 C301 C308 C-15 C301 C301 C301 C309 C301 C301 C301 C301 C309 C301 C301 C301 C301 C301 C301 C301 C301 C301 C301 C301 C301 C301 C301 C301 C301 C301 C301 C301
C202 E-8 Q311 G-12 C203 E-7 Q351 E-14 C204 E-10 Q352 E-13 C205 G-8 Q353 E-13 C206 H-9 Q354 G-13 C207 I-7 Q355 F-13 C208 B-14 Q356 G-13 C251 H-25 Q357 G-14 C301 D-11 Q358 F-14 C302 C-13 Q359 G-14 C303 E-13 Q360 F-13 C304 E-12 Q361 G-13
IC203
IC204
IC206
IC207 I-7 Q355 F-13
IC208
IC301
IC302 C-13 Q359 G-14
IC303 E-13 Q360 F-13
IC304 E-12 Q361 G-13
IC305 G-13 Q401 I-10
IC401 G-7 Q402 B-10 IC402 H-7 Q403 B-12
IC403 I-9 Q451 I-9
IC404 I-8 Q452 B-11
IC421 G-24 Q453 B-12 IC422 G-26 Q701 J-18
IC501 J-12 Q701 H-16
IC701 H-15 Q705 H-15
IC702 I-15 Q801 B-2
IC703
IC705 J-16 Q804 E-2

Note

- o : parts extracted from the component side.
- Pattern on the side which is seen.
- Jumper wire connected to the ground pattern on the component side.

SECTION 4 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE)... (RED)

Parts Color Cabinet's Color

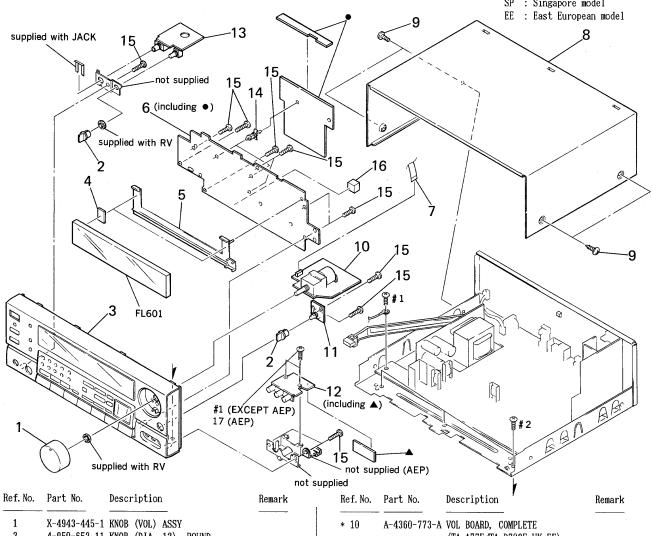
• Hardware (# mark) list is given in the last of this parts list.

The components identified by mark $\underline{\Lambda}$ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

4-1. FRONT PANEL SECTION

G : German model IT : Italian model AUS : Australian model JE : Tourist model EA : Saudi Arabia model MY : Malaysia model SP: Singapore model

Abbreviations



_		
	1	X-4943-445-1 KNOB (VOL) ASSY
	2	4-950-652-11 KNOB (DIA. 12), ROUND
	3	X-4943-564-1 PANEL ASSY, FRONT (TA-D709E)
	3	X-4943-565-1 PANEL ASSY, FRONT (TA-A77E)
*	4	4-934-853-01 CUSHION
*	5	4-957-917-01 HOLDER, FL TUBE
*	6	A-4360-769-A PANEL BOARD, COMPLETE (TA-D709E)
*	6	A-4360-952-A PANEL BOARD, COMPLETE (TA-A77E)
	7	1-690-420-11 WIRE, FLAT TYPE (7 CORE) (TA-D709E:EE)
	7	1-690-635-11 WIRE, FLAT TYPE (7 CORE)
		(TA-A77E/TA-D709E: AEP, UK, G, IT)
*	8	4-939-803-31 CASE

3-363-099-01 SCREW (CASE 3 TP2)

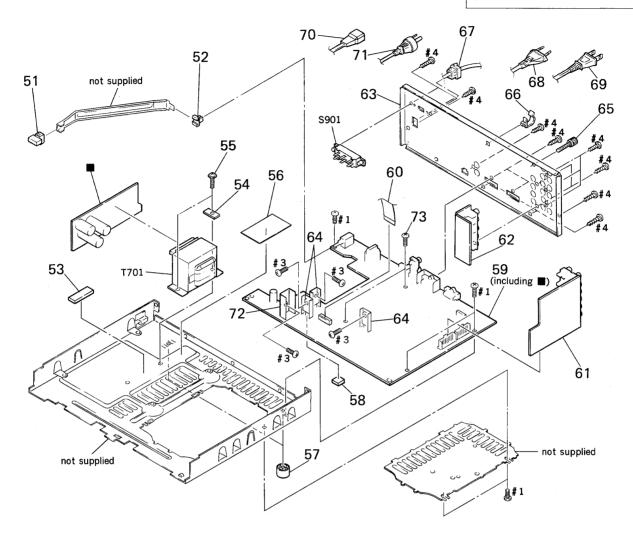
* 10	A-4360-773-A	VOL BOARD, COMPLETE
		(TA-A77E/TA-D709E:UK, EE)
* 10	A-4365-532-A	VOL BOARD, COMPLETE (TA-D709E:AEP)
* 10	A-4365-533-A	VOL BOARD, COMPLETE (TA-D709E:G, IT)
* 11	1-648-762-11	BALANCE BOARD
* 12	1-648-180-11	VIDEO (3) BOARD
* 13	1-648-176-11	MICROPHONE AMPLIFIER BOARD
14	4-924-098-91	HOLDER, PC BOARD
15	4-951-620-01	SCREW (2.6X8), +BVTP
16	4-608-466-01	SPACER
17	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6
		(TA-D709E: AEP)

FL601 1-517-167-11 INDICATOR TUBE, FLUORESCENT

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The components identified by mark A or dotted line with mark. A are critical for safety. Replace only with part number specified.

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-942-061-11	BUTTON (P)		* 63	4-957-918-01	PANEL (B3120), BACK	(TA-D709E: AEP, IT, EE)
52	4-866-342-00	JOINT (B), KNOB		* 63	4-957-918-11	PANEL (B3120), BACK	(TA-D709E: AEP)
* 53	4-931-174-01	SPACER		* 63	4-957-918-21	PANEL (B3120), BACK	(TA-D709E:UK)
54	4-946-540-01	WASHER (SQUARE)		* 63	4-957-918-31	PANEL (B3120), BACK	(TA-D709E:G)
55	4-946-541-01	SCREW (4X8), +PWHTT		* 63	4-957-918-41	PANEL (B3120), BACK	(TA-A77E:E, AUS, JE)
* 56	4-945-761-11	SHEET (INSULATING)		* 63	4-957-918-51	PANEL (B3120), BACK	(TA-A77E:EA, MY, SP)
57	4-931-169-01	FOOT		* 64	3-309-144-21	HEAT SINK	
58	9-911-841-XX	CUSHION		65	4-947-010-01	SCREW, FEEDER FIXED	
* 59	A-4360-765-A	MAIN BOARD, COMPLETE (TA-D70	9E:G, IT, EE)	* 66	4-949-235-01	H00K	
* 59	A-4360-766-A	MAIN BOARD, COMPLETE (TA-A77	E)	* 67	3-703-244-00	BUSHING (2104), COR	D
						(TA-A77E: EA, AUS, MY, S	SP/TA-D709E)
* 59	A-4360-768-A	MAIN BOARD, COMPLETE (TA-D70	9E:UK)				
* 59	A-4365-527-A	MAIN BOARD, COMPLETE (TA-D70	9E:AEP)	* 67	3-703-571-11	BUSHING (S) (4516),	CORD (TA-A77E:E, JE)
60	1-751-486-11	WIRE (FLAT TYPE) (17 CORE)		1 68	1-575-654-11	CORD, POWER	
* 61	A-4360-770-A	AU FUNCTION BOARD, COMPLETE	(TA-A77E)			(TA-A77E:EA, MY, SP/T	A-D709E:AEP, G, IT, EE)
* 61	A-4360-774-A	AU FUNCTION BOARD, COMPLETE		1 €69	1-575-656-11	CORD, POWER (TA-A77)	E:E, JE)
		(TA-D709E:UK, G, IT, EE)		<u></u> 1.70	1-575-669-21	CORD, POWER (TA-D70	9E:UK)
				<u> </u>	1-751-355-11	CORD, POWER (TA-A77)	E:AUS)
* 61	A-4365-529-A	AU FUNCTION BOARD, COMPLETE					
		(TA-D709E:AEP)		* 72	4-880-403-11	HEAT SINK	
* 62	A-4360-771-A	VIDEO FUNCTION BOARD, COMPLE	TE	73	3-704-515-21	SCREW (BV/RING)	
		(TA-A77E/TA-D709E:UK, G, IT, E	2)	<u></u> \$901	1-570-046-21	SWITCH, VOLTAGE CHA	NGE (VOLTAGE SELECTOR)
* 62	A-4365-530-A	VIDEO FUNCTION BOARD, COMPLE	TE			(TA-A77E)	
		(TA-D709E:AEP)		 ↑T701	1-423-671-11	TRANSFORMER, POWER	(TA-D709E)
				 ↑T701	1-423-672-11	TRANSFORMER, POWER	(TA-A77E)

SECTION 5 ELECTRICAL PARTS LIST

AU FUNCTION

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL:Metal-film resistor.

F:nonflammable

METAL OXIDE: Metal oxide-film resistor.

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

In each case, $u:\mu$, for example: uA ..: μA.. uPA..: μPA..

uPB..: μ PB.. uPC..: μ PC.. uPD..: μ PD..

 CAPACITORS uF: μF

• COILS uΗ: μΗ When indicating parts by reference number, please include the board.

The components identified by mark rianlge cdot or dotted line with mark. A are critical for safety. Replace only with part number specified.

Abbreviations

G : German model IT : Italian model AUS : Australian model JE : Tourist model EA : Saudi Arabia model MY : Malaysia model SP : Singapore model

EE : East European model

Ref. No.	Part No.	Description		Re	emark	Ref. No.	Part No.	Description			Re	mark
*	A-4360-770-A	AU FUNCTION	BOARD, COMPLET	E (TA-	A77E)	C162	1-162-286-31	CERAMIC	- 220PF		10%	50V
*	A-4360-774-A	AU FUNCTION	BOARD, COMPLET					(TA-D709E)				
					G, IT, EE)	C163	1-126-049-11		22uF		20%	25V
*	A-4365-529-A	AU FUNCTION	BOARD, COMPLET)9E:AEP)	C164	1-162-286-31	CERAMIC (TA-D709E)	220PF		10%	507
		********	******	*		C165	1-126-049-11	ELECT	22uF		20%	25V
		< CAPACITOR	>			C166	1-162-286-31	CERAMIC (TA-D709E)	220PF		10%	50V
C101	1-162-286-31	CERAMIC (TA-D709E)	220PF	10%	50V	C167	1-162-286-31	CERAMIC (TA-D709E)	220PF		10%	50V
C102	1-126-161-11		2. 2uF	20%	50V	C261	1-126-022-11		47uF		20%	16V
C103	1-164-070-11		100PF	5%	50V	C262	1-126-022-11		47uF		20%	16V
C104	1-164-066-11	CERAMIC	68PF	5%	50V							
C105	1-126-022-11		47uF	20%	10V			< CONNECTOR	>			
C106	1-130-480-00	MYLAR	0. 0056uF	5%	50V	* CNP101	1-573-979-11	CONNECTOR,	BOARD TO B	OARD 1	11P	
C107	1-130-473-00	MYLAR	0.0015uF	5%	50V	* CNP102	2 1-573-979-11	CONNECTOR,	BOARD TO B	OARD [11P	
C108	1-124-464-11		0. 22uF	20%	50V							
C109	1-126-022-11		47uF	20%	10V			< IC >				
C110	1-162-286-31		220PF	10%	50V							
		(TA-D709E)				1	8-759-636-74					
0440	4 400 000 04	ann illia	00000	4.00	FOU	1	8-759-000-48					
C112	1-162-286-31	CERAMIC (TA-D709E)	220PF	10%	50V		8-759-000-48 8-759-801-01					
C113	1-126-049-11	ELECT	22uF	20%	25V							
C114	1-162-286-31	CERAMIC (TA-D709E)	220PF	10%	50V			< JACK >				
C115	1-126-049-11	ELECT	22uF	20%	25V	J101	1-573-520-11	JACK, PIN 4	P (PHONO/C	D)		
C116	1-162-286-31	CERAMIC	220PF	10%	50V	J102	1-573-520-11					
		(TA-D709E)				J103	1-573-520-11	JACK, PIN 4	P (VIDEO 2)		
C117	1-162-286-31	CERAMIC (TA-D709E)	220PF	10%	50V			< TRANSISTO	R >			
C151	1-162-286-31	CERAMIC	220PF	10%	50V	Q214	8-729-900-63	TRANSISTOR	DTA124ES			
		(TA-D709E)				Q215	8-729-900-80	TRANSISTOR	DTC114ES			
C152	1-126-161-11	ELECT	2. 2uF	20%	50V	Q216	8-729-900-63	TRANSISTOR	DTA124ES			
C153	1-164-070-11	CERAMIC	100PF	5%	50V	Q217	8-729-900-80	TRANSISTOR	DTC114ES			
C154	1-164-066-11	CERAMIC	68PF	5%	50V	Q218	8-729-900-80	TRANSISTOR	DTC114ES			
C155	1-126-022-11	ELECT	47uF	20%	10V			< RESISTOR	>			
C156	1-130-480-00		0. 0056uF	5%	50V							
C157	1-130-473-00		0. 0015uF	5%	50V	R101	1-249-417-11		1K	5%	1/4W	
C158	1-124-464-11		0. 22uF	20%	50V			(TA-D709E)				
C159	1-126-022-11	ELECT	47uF	20%	10V	R102	1-249-441-11		100K		1/4W	
				_		R103	1-249-417-11		1K	5%	1/4W	
C160	1-162-286-31		220PF	10%	50V	R104	1-249-441-11		100K		1/4W	
		(TA-D709E)				R105	1-249-416-11	CARBON	820	5%	1/4W	

AU FUNCTION BALANCE MAIN

Ref. No.	Part No.	Description			Remark
R106	1-247-897-11	CARBON	560K	5%	1/4W
R107	1-249-437-11	CARBON	47K	5%	1/4W
R108	1-249-441-11	CARBON	100K	5%	1/4W
R109	1-249-417-11	CARBON	1K	5%	1/4W
R110	1-249-423-11	CARBON	3. 3K	5%	1/4W
R111	1-249-429-11	CARBON	10K	5%	1/4W
R112	1-249-417-11	CARBON	1K	5%	1/4W
R113	1-247-903-00	CARBON	1M	5%	1/ 4 W
R114	1-249-417-11	CARBON	1K	5%	1/4W
R115	1-247-903-00	CARBON	1M	5%	1/4W
R116	1-249-413-11	CARBON	470	5%	1/4W
R117	1-247-903-00	CARBON	1M	5%	1/4W
R118	1-249-413-11	CARBON	470	5%	1/4W
R119	1-247-903-00	CARBON	1M	5%	1/4W
R130-1	134				
	1-247-807-31	CARBON	100	5%	1/4W
R137	1-249-403-11	CARBON	68	5%	1/4W
R151	1-249-417-11	CARBON	1K	5%	1/4W
		(TA-D709E)			
R152	1-249-441-11	CARBON	100K	5%	1/4W
R153	1-249-417-11	CARBON	1K	5%	1/4W
R154	1-249-441-11	CARBON	100K	5%	1/4W
R155	1-249-416-11	CARBON	820	5%	1/4W
R156	1-247-897-11	CARBON	560K	5%	1/4W
R157	1-249-437-11	CARBON	47K	5%	1/4W
R158	1-249-441-11	CARBON	100K	5%	1/ 4W
R159	1-249-417-11	CARBON	1K	5%	1/4W
R160	1-249-423-11	CARBON	3. 3K	5%	1/4W
R161	1-249-429-11	CARBON	10K	5%	1/4W
R162	1-249-417-11	CARBON	1K	5%	1/4W
R163	1-247-903-00	CARBON	1M	5%	1/4W
R164	1-249-417-11	CARBON	1K	5%	1/4W
R165	1-247-903-00	CARBON	1M	5%	1/4W
R166	1-249-413-11	CARBON	470	5%	1/4W
R167	1-247-903-00	CARBON	1M	5%	1/4W
R168	1-249-413-11	CARBON	470	5%	1/4W
R169	1-247-903-00	CARBON	1M	5%	1/4W
R180-	184				
	1-247-807-31	CARBON	100	5%	1/4W
R187	1-249-403-11	CARBON	68	5%	1/4W
R241-	243				
R261-	1-249-437-11 265	CARBON	47K	5%	1/4W
11201	1-249-417-11	CARBON	1K	5%	1/4W

Ref. No.	Part No.	Description		Remark
*	1-648-762-11	BALANCE BOARD		
		< VARIABLE RESI	STOR >	
		RES, VAR, CARBO		
	4 4000 505 4	WITH DOLDS COM	DIETE /TA D70)OC.C IT EE)
*		MAIN BOARD, COM MAIN BOARD, COM		
*		MAIN BOARD, COM		
*		MAIN BOARD, COM		
	11 1000 021 11	*****		· · · · · · · · · · · · · · · · · · ·
*	3-309-144-21	HEAT SINK		
*	4-870-539-00	PLATE, GROUND		
*	4-880-403-11	HEAT SINK		
	7-682-548-04	SCREW +BVTT 3X8	(S)	
		< BASE POST >		
BP1	1-535-139-00	BASE POST 22MM	(10MM PITCH)	2P (TA-A77E)
* BP2		TERMINAL (WITH		
* BP3		TERMINAL (WITH		
		< CAPACITOR >		
∕ . \C1	1-161-744-51	CERAMIC	0. 01uF	400V
<u>∧</u> C2	1-161-741-00	CERAMIC	0. 001uF	10% 400V
 €C3	1-161-741-00	CERAMIC	0. 001uF	10% 400V
<u>^</u> C4	1-161-741-00	CERAMIC	0.001uF	10% 400V
∆ C5	1-161-741-00	CERAMIC	0. 001uF	10% 400V
/î\C6	1-161-741-00	CERAMIC	0.001uF	10% 400V
<u> </u>	1-161-744-51	I CERAMIC	0. 01uF	400V
C118	1-126-049-13	I ELECT	22uF	20% 25V
C119	1-126-022-13	L ELECT	47uF	20% 10V
C120	1-136-153-00	FILM	0. 01uF	5% 50V
C121	1-126-059-1	1 ELECT	10uF	20% 50V
C137	1-136-153-0		0.01uF	5% 50V
C168	1-126-049-1	1 ELECT	22uF	20% 25V
C169	1-126-022-1	1 ELECT	47uF	20% 10V
C170	1-136-153-0	D FILM	0. 01uF	5% 50V
C171	1-126-059-1	1 ELECT	10uF	20% 50V
C187	1-136-153-0	O FILM	0. 01uF	5% 50V
C202	1-126-022-1	1 ELECT	47uF	20% 10V
C203	1-164-159-1	1 CERAMIC	0. 1uF	50V
C204	1-164-159-1	1 CERAMIC	0. 1uF	50V
C205	1-126-022-1	1 ELECT	47uF	20% 10V
C207	1-126-049-1		22uF	20% 25V
C208	1-164-159-1		0. 1uF	50V
C209	1-126-049-1		22uF	20% 25V
C210	1-164-159-1	1 CERAMIC	0. 1uF	50V
C212	1-164-159-1	1 CERAMIC	0. 1uF	50V

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description		Ren	nark	Ref. No.	Part No.	Description		Re	emark
C213	1-126-022-11	ELECT	47uF	20%		C309	1-164-066-11	CERAMIC	68PF	 5%	50V
C214	1-164-159-11		0. 1uF		50V	C310	1-126-022-11	ELECT	47uF	20%	16V
C215	1-164-159-11		0. 1uF		50V	C311-3					
C216	1-126-022-11		47uF	20%	107	0011	1-126-301-11	ELECT	1uF	20%	50V
C217	1-126-022-11		47uF	20%	10V	C314	1-126-049-11		22uF	20%	25V
0211	1 120 022 11	LULUI	1741	20%	101	C316	1-164-066-11		68PF	5%	50V
C218	1-164-159-11	CERAMIC	0. 1uF		50V	0010	1 101 000 11	OBIGINIO	0011	0.0	001
C219	1-126-022-11		47uF	20%	10V	C317	1-126-049-11	ELECT	22uF	20%	25V
C220	1-164-159-11		0. 1uF		50V	C318	1-126-022-11		47uF	20%	16V
C221	1-164-159-11		0. 1uF		50V	C319	1-164-066-11		68PF	5%	50V
C222	1-124-587-11		220uF	20%	6. 3V	C323	1-136-841-81		0. 39uF	5%	50V
	- 121 001 11		22001	20.0	0.01	C324	1-136-164-00		0. 082uF	5%	50V
C223	1-126-049-11	ELECT	22uF	20%	25V	5521	1 100 101 00		*********		
C224	1-164-159-11		0. 1uF		50V	C325	1-126-301-11	ELECT	1uF	20%	50V
C225	1-126-022-11		47uF	20%	10V	C328	1-126-049-11		22uF	20%	25V
C226	1-164-159-11		0. 1uF		50V	C329	1-126-022-11		47uF	20%	16V
C227	1-126-301-11		1uF	20%	50V	C351	1-164-068-11		82PF	5%	50V
	_ 120 001 11	22201	141	. 20%	001	C352	1-161-375-00		0. 0022uF	20%	50V
C228	1-124-478-11	ELECT	100uF	20%	25V	0002	1 101 070 00	OLIUMIO	0. 00ZZdI	2070	001
C229	1-136-171-00		0. 33uF	5%	50V	C353	1-126-022-11	FLECT	47uF	20%	10V
C230	1-136-165-00		0. 1uF	5%	50V	C354	1-164-057-11		30PF	5%	50V
C231	1-126-301-11		1uF	20%	50V	C355	1-164-057-11		30PF	5%	50V
C232	1-136-159-00		0. 033uF	5%	50V	C356	1-106-359-00		4700PF	5%	200V
0202	1 100 100 00	LIUM	0. 000ui	370	301	C357	1-130-472-00		0. 0012uF	5%	50V
C233	1-136-158-00	FILM	0. 027uF	5%	50V	0007	1 100 472 00	millime	0.001241	0/0	001
C234	1-106-359-00		4700PF	5%	200V	C358	1-126-022-11	FLECT	47uF	20%	16V
C235	1-130-482-00		0.0082uF	5%	50V	C359	1-164-066-11		68PF	5%	50V
C236	1-126-049-11		22uF	20%	25V	C360	1-126-022-11		47uF	20%	16V
C237	1-124-478-11		100uF	20%	25V	C361-3		LULUI	47ui	20/0	101
0201	1 121 170 11	LDLUI	10001	2070	201	0001 0	1-126-301-11	FLECT	1uF	20%	50V
C238	1-126-301-11	FLFCT	1uF	20%	50V	C364	1-126-049-11		22uF	20%	25V
C239	1-126-301-11		1uF	20%	50V	0304	1 120 043 11	LLLOI	22ui	2070	201
C240	1-164-013-11		4PF	0. 25PF		C366	1-164-066-11	CERAMIC	68PF	5%	50V
C241	1-164-015-11		6PF	0. 5PF	50V	C367	1-126-049-11		22uF	20%	25V
C242	1-126-163-11		4. 7uF	20%	50V	C368	1-126-022-11		47uF	20%	16V
02-12	1 120 100 11	LLLUI	4. /ui	20%	301	C369	1-164-066-11		68PF	20% 5%	50V
C243	1-164-159-11	CFRAMIC	0. 1uF		50V	C373	1-136-841-81		0. 39uF	5%	50V
C244	1-162-294-31		0. 001uF	10%	50V	0070	1 130 041 01	1 115/11	0. 03ui	J /0	- JU Y
C245	1-162-294-31		0.001uF	10%	50V	C374	1-136-164-00	CTIM	0. 082uF	5%	50V
C246	1-162-286-31		220PF	10%	50V	C374	1-130-104-00		u. uozur 1uF	20%	50V
C247	1-162-286-31		220PF	10%	50V	C378	1-126-049-11		22uF	20%	25V
0247	1 102 200 31	OLIVAIIO	22011	10/0	301		1-126-043-11		22ur 47uF	20%	16V
C248	1-162-286-31	CERAMIC	220PF	10%	50V	C401	1-106-347-00		1500PF		200V
C249	1-164-159-11		0. 1uF	10/0	50V	0401	1-100-347-00	MILAN	130071	5%	2007
C250	1-162-286-31		220PF	10%	50V	C402	1-130-478-00	MIVI AD	0. 0039uF	E0/	50V
C251	1-162-286-31		220PF	10%	50V	C402	1-164-077-11		0.0039ur 220PF	5%	
C253	1-164-159-11		0. 1uF	10/0	50V	C403	1-104-077-11			10%	50V
0200	1 104 105 11	(TA-D709E:AEP)	(TYPE III, IV)		301	C404			47uF	20%	16V
		(IA DIUSE.ALI)	(IIIL III, IV)			C405-4	1-126-049-11	ELECT	22uF	20%	25V
C301	1-164-068-11	CERAMIC	82PF	5%	50V	V4UU ⁻ 4	1-126-059-11	FLECT	10uF	20%	50V
C302	1-161-375-00		0. 0022uF	20%	50V		1 120 000 11	PPFAI	TOUL	2U/0	JU Y
C303	1-126-022-11		47uF	20%	10V	C409	1-126-300-11	FLECT	0. 47uF	20%	50V
C304	1-164-057-11		30PF	5%	50V	C410	1-126-022-11		0. 47ur 47uF	20%	16V
C305	1-164-057-11		30PF	5%	50V	C410	1-126-163-11		47ur 4. 7uF		50V
0000	1 101 001 II	OLIGHILO	0011	O/U	JUY	C411	1-126-163-11		4. 7ur 4. 7uF	20% 20%	50V 50V
C306	1-106-359-00	MYI.AR	4700PF	5%	200V	C412	1-120-103-11		4. 7ur 1500PF	20% 5%	200V
C307	1-130-472-00		0. 0012uF	5%	50V	0431	1 100 041-00	mi PVII	190011,	JA	400Y
C307	1-126-022-11		0. 0012ur 47uF	20%	16V	C452	1-130-478-00	MVIAR	0. 0039uF	5%	50V
0000	1 120 022 II	DDDV1	71 UI	204)	TO 4	0432	1 130 410 00	mr nAllt	o. oosaar	J/0	JUY

Ref. No.	Part No.	Description		Rema	ark	Ref. No.	Part No.	Descript	ion		Remark
C453	1-164-077-11	CERAMIC	220PF	10%	50V			< CONNEC	CTOR >		
C454	1-126-022-11	ELECT	47uF	20%	16V						
C455	1-126-049-11	ELECT	22uF	20%	25V	* CN1	1-564-321-00				
C456-4						* CN101	1-566-858-41	SOCKET,	CONNECTOR 11	P (SYSTEM	CONTROL 1)
0.100	1-126-059-11	ELECT	10uF	20%	50V		1-564-507-11				
C459	1-126-300-11		0. 47uF	20%	50V	CN201	1-564-510-11	PLUG, CO	ONNECTOR 7P		
0400	1 120 300 11	LBLUI	0. 1741				1-564-506-11				
C460	1-126-022-11	ELECT	47uF	20%	16V					- /	
C461	1-126-163-11	ELECT	4. 7uF	20%	50V		1-566-858-31			.P (SYSTEM	CONTROL 3,
C462	1-126-163-11	ELECT	4. 7uF	20%	50V	* CN402	1-564-506-11	PLUG, CO	ONNECTOR 3P		
C501	1-126-022-11	ELECT	47uF	20%	10V	* CN501	1-565-561-11	PIN, COM	NNECTOR 3P (A	AU BUS)	
C502	1-164-159-11	CERAMIC	0. 1uF		50V		1-568-836-11 1-564-505-11				FD)
0700	1 104 000 11	DI DOT	220E	200	63V	UNOUS	1 304 303 11	(TYPE II		(III PIOSEIII	ш,
C702	1-124-920-11		330uF	20%				(11112 11	1, 17)		
C703	1-126-233-11		22uF	20%	50V	. 011101	1-573-978-11	CONNECTO	חד ממגמת מח	DOADD 11D	
C704	1-124-122-11		100uF	20%	50V						
C705	1-126-860-11		3300uF	20%	35V		1-573-978-11				
C706	1-126-860-11	ELECT	3300uF	20%	35V	,	1-565-967-11 1-569-493-11				
C707	1-126-012-11	ELECT	470uF	20%	16V						
C708	1-126-012-11		470uF	20%	16V			< DIODE	>		
C709	1-124-443-00		100uF	20%	10V						
			0. 1uF	2070	50V	D301-3	በ3				
C710	1-164-159-11		3300uF	20%	16V	D301 3	8-719-987-63	DIODE	1N4148M		
C711	1-124-887-00	ELECI	JJUUUI	ZU%	101	D351-3	53				
C712	1-126-022-11	ELECT	47uF	20%	16V		8-719-987-63	DIODE	1N4148M		
C713	1-124-463-00	ELECT	0. 1uF	20%	50V	D701-7	12				
C714	1-136-161-00	FILM	0. 047uF	5%	50V		8-719-200-82	DIODE	11ES2		
C715	1-124-994-11	ELECT	100uF	20%	10V	D713	8-719-002-30	DIODE	UZL-22H		
C716	1-161-377-00	CERAMIC	0. 0047uF	30%	50V	D714	8-719-014-98	DIODE	UZP-8. 2B		
C717	1-161-377-00	CERAMIC	0. 0047uF	30%	50V	D715	8-719-200-82	DIODE	11ES2		
		(TYPE I, II)				D717	8-719-200-82	DIODE	11ES2		
C717	1-161-377-00	CERAMIC	0. 0047uF	30%	50V	D718	8-719-200-82	DIODE	11ES2		
		(TA-A77E/TA-D70	9E:UK) (TYPE	III, IV)		D719	8-719-987-63	DIODE	1N4148M		
C717	1-164-159-11	CERAMIC (TA-D709E:AEP, G	0. 1uF	C 111 TV	507	D720	8-719-987-63	DIODE	1N4148M		
0710	1 101 077 00					D721	8-719-002-30	DIODE	UZL-22H		
C718	1-161-377-00	(TYPE I, II)	0. 0047uF	30%	50V	D721	8-719-000-84		UZL-7M1		
C718	1-161-377-00	CERAMIC (TA-A77E/TA-D70	0.0047uF 9E:UK) (TYPE	30% Ⅲ, Ⅳ)	50V	-		< COIL	>		
2710		ann i i i	0.4.5		COLL	ED001	004				
C718	1-164-159-11		0. 1uF		50V	FB201-		TUDITORO	n our		
		(TA-D709E:AEP, G					1-412-473-21			/m. >=000	. DD\
C719	1-161-377-00	CERAMIC	0.0047uF	30%	50V	FB205	1-412-473-51			(TA-D709E:	ALY)
C722	1-126-059-11	ELECT	10uF	20%	50V	•		(TYPE I	II, IV)		
C723	1-126-059-11	ELECT	10uF	20%	50V						
C724	1-124-910-11	ELECT	47uF	20%	50V			< IC >			
C725	1-124-910-11		47uF	20%	50V	1	8-759-711-35		JM4580D		
C726	1-136-165-00		0. 1uF	5%	50V	1	8-759-504-30		S5339-KP		
		(TA-D709E:AEP, G	, IT, EE) (TYP	E II, II	(, IV)	i i	8-759-075-3		083015	_	
C727	1-136-165-00		0. 1uF	5%	50V		8-759-158-10		AT514256B-70R	RS	
		(TA-D709E:AEP, G	, IT, EE) (TYP	E II, II	(, IV)	IC204	8-752-359-50	O IC C	XD2564AM		
						10205	8-759-040-5	9 10 10	C7883K		
							8-759-823-24		A2730		
						1	8-759-801-0		C4966		
						10207	0 100 001 0.	T 10 P(, 1300		

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
10208	8-759-801-01	IC LC4966	-		Q307-3	111				
	8-759-634-51		(TYPE I)		QUUT U	8-729-141-26	TRANSISTOR	2SC3622A	-LK	
	8-759-711-35		D (TYPE II, III, IV)		Q351-3					
IC302-	305		, , , , , ,			8-729-141-26	TRANSISTOR	2SC3622A	-LK	
	8-759-634-51	IC M5218AF)		Q354-3	156				
IC401	8-759-634-51	IC M5218AP)			8-729-224-61	TRANSISTOR	2SK246-Y		
					Q357-3		mp . Ma ramop	0000000	1.17	
	8-759-634-51)		0401 4	8-729-141-26	TRANSISTOR	2SC3622A	-LK	
	8-759-820-11		•		Q401-4	8-729-231-55	TDANCICTOD	2SC2878-	۸R	
	8-759-634-51 8-759-171-73		.4CW-015			0-723-231-33	mansision	2302070	Aυ	
	8-759-231-59				Q451-4	153				
10.01	0 .00 201 00					8-729-231-55	TRANSISTOR	2SC2878-	AB	
IC702	8-759-245-87	IC TA7915S	}		Q701	8-729-209-15	TRANSISTOR	2SD2012		
IC703	8-759-231-53	IC TA7805S	;		Q704	8-729-900-80		DTC114ES		
	8-759-245-79				Q705	8-729-119-76	TRANSISTOR	2SA1175-	HFE	
IC705	8-759-820-13	IC L78MR06	i				/ PEGIGMOD >			
	-	/ TACK \					< RESISTOR >			
		< JACK >			R120	1-249-417-11	CARBON	1K	5%	1/4W
J201	1-565-352-51	JACK PIN 2F	(CENTER OUT)		R121	1-247-903-00		1M	5%	1/4W
0201	1 000 002 01	011011, 1111 21	(OBINIBIL GOT)		R122	1-249-417-11		1K	5%	1/4W
		< COIL >			R123	1-247-903-00	CARBON	1M	5%	1/4W
					R124	1-247-903-00	CARBON	1M	5%	1/4W
L201	1-408-417-00	INDUCTOR	47uH							
L202	1-410-517-11		47uH		R125	1-249-417-11		1K	5%	1/4W
L203	1-408-417-00		47uH (TYPE I,	II)	R126	1-249-437-11		47K	5% 5%	1/4W
L203	1-408-417-00		47uH D709E:UK, G, IT, EE)	(TVDE III IV)	R127 R128	1-249-438-11 1-249-437-11		56K 47K	5% 5%	1/4W 1/4W
L204	1-408-417-00		47uH	(IIFE III, IV)	R129	1-249-401-11		47	5%	1/4W
11204	1 400 417 00	INDUCTOR	Truit			1 210 101 11	OTHER OTHER		0.0	-/
		< LINE FILTE	'R >		R130	1-247-807-31	CARBON	100	5%	1/4W
					R131	1-249-413-11	CARBON	470	5%	1/4W
∆ LF1	1-424-117-11	FILTER, LINE	i I		R137	1-249-435-11	CARBON	33K	5%	1/4W
					R138	1-249-435-11		33K	5%	1/4W
		< IC LINK >			R170	1-249-417-11	CARBON	1K	5%	1/4W
A DC701	1-532-835-41	IINK IC (DD	EAUU) U AV		R171	1-247-903-00	CADRON	1M	5%	1/4W
	1-532-840-41				R171	1-249-417-11		1K	5%	1/4W
	1-532-840-41				R173	1-247-903-00		1M	5%	1/4W
	1-532-845-21				R174	1-247-903-00		1M	5%	1/4W
					R175	1-249-417-11	CARBON	1K	5%	1/4W
		< TRANSISTOR	: >							
		mp . waxamap	DMG44 4EG		R176	1-249-437-11		47K	5%	1/4W
Q201	8-729-900-80	TRANSISTOR	DTC114ES		R177	1-249-438-11		56K	5% = 0	1/4W
Q202-2	8-729-900-63	TRANCICTOR	DTA124ES		R178 R179	1-249-437-11 1-249-401-11		47K 47	5% 5%	1/4W 1/4W
Q213	8-729-620-05		2SC2603-EF		R180	1-247-807-31		100	5%	1/4W
Q214	8-729-900-63		DTA124ES		RIGO	1 21, 00, 01		200	0.0	-/
Q215	8-729-141-26	TRANSISTOR	2SC3622A-LK		R181	1-249-413-11	CARBON	470	5%	1/4W
					R187	1-249-435-11	CARBON	33K	5%	1/4W
Q216	8-729-900-63		DTA124ES		R188	1-249-435-11		33K	5%	1/4W
Q217	8-729-620-05	TRANSISTOR	2SC2603-EF		R201	1-247-895-00		470K	5%	1/4W
Q301-3		mp v Na ramon	00000001 12		R203	1-249-413-11	CARBON	470	5%	1/4W
0004 0	8-729-141-26	TRANSISTOR	2SC3622A-LK		pona	1_9/10_90911	CARRON	10	5%	1 //W
Q304-3	ub 8-729-224-61	TRANCICTOR	2SK246-Y		R204 R206	1-249-393-11 1-249-393-11		10 10	5% 5%	1/4W 1/4W
	0 143 444 01	MATOTOM	701/70 I		R207	1-249-397-11		22	5%	1/4W
				í						-,

The components identified by mark A or dotted line with mark. A are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R208	1-249-413-11	CARBON	470	5%	1/4W	R306	1-249-439-11	CARBON	68K	5%	1/4W
R209	1-249-413-11	CARBON	470	5%	1/4W	R307-3	09				
R210	1-249-397-11		22	5%	1/4W		1-249-419-11	CARBON	1.5K	5%	1/4W
R211	1-247-862-11		20K	5%	1/4W	R310	1-249-441-11	CARBON	100K	5%	1/4W
R212	1-249-429-11		10K	5%	1/4W	R311	1-249-441-11	CARBON	100K	5%	1/4W
		(TYPE I)				R312	1-249-426-11	CARBON	5. 6K	5%	1/4W
R212	1-249-431-11	CARBON	15K	5%	1/4W	R313	1-249-425-11	CARBON	4. 7K	5%	1/4W
11212	1 210 101 11	(TYPE II, III, IV)		•		R314	1-249-425-11	CARBON	4.7K	5%	1/4W
R213	1-247-889-00		270K	5%	1/4W	R315	1-249-419-11	CARBON	1.5K	5%	1/4W
R214	1-247-850-11		6. 2K		1/4W	R316	1-247-842-11	CARBON	3K	5%	1/4W
R215	1-249-437-11		47K	5%	1/4W	R317	1-249-425-11	CARBON	4.7K	5%	1/4W
R216	1-249-423-11		3. 3K		1/4W						
ILL I	1 210 120 11	Olar Doi:	••••	***	-,	R318	1-249-414-11	CARBON	560	5%	1/4W
R217	1-247-889-00	CARBON	270K	5%	1/4W	R319	1-247-838-00	CARBON	2K	5%	1/4W
R218	1-249-408-11		180	5%	1/4W	R320	1-249-425-11	CARBON	4. 7K	5%	1/4W
R219	1-249-430-11		12K	5%	1/4W	R321	1-249-433-11	CARBON	22K	5%	1/4W
R220	1-249-417-11		1K	5%	1/4W			(TYPE I)			
R221	1-249-429-11		10K	5%	1/4W	R321	1-249-434-11		27K	5%	1/4W
								(TYPE II, III, IV)			
R222	1-249-431-11		15K	5%	1/4W			a i ppou	0017	-o,	4 /450
R223	1-249-434-11		27K	5%	1/4W	R322	1-249-433-11		22K	5%	1/4W
R224	1-249-433-11		22K	5%	1/4W	R325	1-249-433-11		22K	5%	1/4W
R225	1-249-427-11		6.8K	5%	1/4W	R326	1-249-429-11		10K	5%	1/4W
R226	1-249-437-11	CARBON	47K	5%	1/4W	R327	1-249-417-11		1K	5%	1/4W
						R328	1-249-441-11	CARBON	100K	5%	1/4W
R227	1-249-437-11	CARBON	47K	5%	1/4W						
R228	1-249-413-11	CARBON	470	5%	1/4W	R329	1-249-431-11		15K	5%	1/4W
R229	1-249-441-11	CARBON	100K		1/4W	R330	1-249-435-11		33K	5%	1/4W
R230	1-249-425-11	CARBON	4.7K	5%	1/4W	R332	1-249-431-11		15K	5%	1/4W
R231-	240					R334	1-249-426-11		5. 6K		1/4W
	1-249-441-11	CARBON	100K	5%	1/4W	R336	1-249-419-11	CARBON	1. 5K	5%	1/4W
R241	1-249-437-11	CARBON	47K	5%	1/4W	R337	1-249-436-11	CARBON	39K	5%	1/4W
R242	1-249-437-11		47K	5%	1/4W	R338	1-247-884-11	CARBON	160K	5%	1/4W
R243	1-249-413-11		470	5%	1/4W	R339	1-249-425-11	CARBON	4.7K	5%	1/4W
R244-					_,	R340	1-249-441-11	CARBON	100K	5%	1/4W
	1-249-417-11	CARBON	1K	5%	1/4W	R341	1-249-425-11	CARBON	4.7K	5%	1/4W
R248	1-249-437-11		47K	5%	1/4W						
						R342	1-249-436-11	CARBON	39K	5%	1/4W
R249	1-249-411-11	CARBON	330	5%	1/4W	R343	1-249-425-11	CARBON	4.7K	5%	1/4W
R250	1-249-429-11	CARBON	10K	5%	1/4W	R344	1-249-427-11	L CARBON	6.8K	5%	1/4W
R251	1-249-425-11		4. 7K		1/4W	R345	1-249-412-11	L CARBON	390	5%	1/4W
R252	1-249-441-11		100K		1/4W	R346	1-249-419-13	L CARBON	1.5K	5%	1/4W
R253	1-249-433-11		22K	5%	1/4W						
						R347	1-249-431-13	L CARBON	15K	5%	1/4W
R254	1-249-433-11	CARBON	22K	5%	1/4W	R351	1-249-435-13	L CARBON	33K	5%	1/4W
R255	1-247-807-31		100	5%	1/4W	R352	1-249-435-13		33K	5%	1/4W
R256	1-249-397-11		22	5%	1/4W	R353	1-249-432-13		18K	5%	1/4W
R257	1-249-397-11		22	5%	1/4W	R354	1-249-439-1		68K	5%	1/4W
R271-	273									- c.	
	1-249-438-11	CARBON	56K	5%	1/4W	R355	1-249-432-1		18K	5%	1/4W
						R356	1-249-439-1	1 CARBON	6 8 K	5%	1/4W
R301	1-249-435-11		33K	5%	1/4W	R357-					4 1407
R302	1-249-435-11	CARBON	33K	5%	1/4W		1-249-419-1		1. 5K		1/4W
R303	1-249-432-11	L CARBON	18K	5%	1/4W	R360	1-249-441-1		100K		1/4W
R304	1-249-439-11		68K	5%	1/4W	R361	1-249-441-1	1 CARBON	100K	5%	1/4W
R305	1-249-432-11	L CARBON	18K	5%	1/4W						

MAIN MICROPHONE AMPLIFIER

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Ren	nark
R362	1-249-426-11	CARBON	5. 6K	5%	1/4W	R451-4	53					
R363	1-249-425-11	CARBON	4.7K	5%	1/4W		1-249-423-11	CARBON	3. 3K	5%	1/4W	
R364	1-249-425-11	CARBON	4.7K	5%	1/4W	R454	1-249-417-11	CARBON	1K	5%	1/4W	
R365	1-249-419-11	CARBON	1.5K	5%	1/4W	R455	1-249-441-11	CARBON	100K	5%	1/4W	
R366	1-247-842-11	CARBON	3K	5%	1/4W	R456	1-249-419-11	CARBON	1.5K	5%	1/4W	
						R457	1-249-430-11	CARBON	12K	5%	1/4W	
R367	1-249-425-11	CARBON	4.7K	5%	1/4W							
R368	1-249-414-11	CARBON	560	5%	1/4W	R458	1-249-441-11	CARBON	100K	5%	1/4W	
R369	1-247-838-00	CARBON	2K	5%	1/4W	R459	1-249-419-11	CARBON	1. 5K	5%	1/4W	
R370	1-249-425-11	CARBON	4.7K	5%	1/4W	R460	1-249-431-11	CARBON	15K	5%	1/4W	
R371	1-249-433-11	CARBON	22K	5%	1/4W	R461	1-249-413-11	CARBON	470	5%	1/4W	
		(TYPE I)				R462	1-249-441-11	CARBON	100K	5%	1/4W	
R371	1-249-434-11	CARBON	27K	5%	1/4W	R463	1-249-425-11	CARBON	4. 7K	5%	1/4W	
		(TYPE II, III, IV)				R464	1-249-413-11	CARBON	470	5%	1/4W	
R372	1-249-433-11	CARBON	22K	5%	1/4W	R465	1-249-441-11	CARBON	100K	5%	1/4W	
R375	1-249-433-11	CARBON	22K	5%	1/4W	R466	1-249-425-11	CARBON	4.7K	5%	1/4W	
R376	1-249-429-11	CARBON	10K	5%	1/4W	R501-5	08					
R377	1-249-417-11	CARBON	1K	5%	1/4W		1-249-417-11	CARBON	1K	5%	1/4W	
R378	1-249-441-11	CARRON	100K	5%	1/4W	R509	1-249-409-11	CARBON	220	5%	1/4W	
R379	1-249-431-11		15K	5%	1/4W	R510	1-249-409-11		220	5%	1/4W	
R380	1-249-435-11		33K	5%	1/4W	R511-5		011120			_,	
R382	1-249-431-11		15K	5%	1/4W		1-249-417-11	CARBON	1K	5%	1/4W	
R384	1-249-426-11		5. 6K		1/4W	R701	1-260-108-81		5. 6K		1/2W	
				0.0	2, 2	R706	1-249-425-11		4. 7K		1/4W	
R386	1-249-419-11	CARBON	1. 5K	5%	1/4W							
R387	1-249-436-11		39K	5%	1/4W	R707	1-249-441-11	CARBON	100K	5%	1/4W	
R388	1-247-884-11	CARBON	160K	5%	1/4W	R708	1-249-429-11	CARBON	10K	5%	1/4W	
R389	1-249-425-11	CARBON	4. 7K		1/4W	R709	1-249-433-11	CARBON	22K	5%	1/4W	
R390	1-249-441-11	CARBON	100K		1/4W	R710	1-249-433-11	CARBON	22K	5%	1/4W	
R391	1-249-425-11	CARBON	4. 7K	5%	1/4W			< SWITCH >				
R392	1-249-436-11	CARBON	39K	5%	1/4W							
R393	1-249-425-11	CARBON	4. 7K	5%	1/4W	∆ S701	1-572-716-11	SWITCH, PUSH (A	C POWE	R) (P0'	WER)	
R394	1-249-427-11	CARBON	6.8K	5%	1/4W							
R395	1-249-412-11	CARBON	390	5%	1/4W			< VIBRATOR >				
R396	1-249-419-11	CARBON	1. 5K	5%	1/4W	X201	1-567-970-11	VIBRATOR, CRYST	AL (24)	MHz)		
R397	1-249-431-11	CARBON	15K	5%	1/4W	X501	1-579-599-21	VIBRATOR, CERAM	IC (8.	38MHz)		
R401-40)3					******	*****	******	*****	*****	*****	****
	1-249-423-11	CARBON	3. 3K	5%	1/4W							
R404	1-249-422-11	CARBON	2. 7K		1/4W	*	1-648-176-11	MICROPHONE AMPL	IFIER I	BOARD		
R405	1-249-441-11	CARBON	100K	5%	1/4W			******	******	****		
R406	1-249-419-11	CARBON	1. 5K	5%	1/4W			< CAPACITOR >				
R407	1-249-430-11	CARBON	12K	5%	1/4W							
R408	1-249-441-11	CARBON	100K	5%	1/4W	C901	1-126-161-11	ELECT	2. 2uF		20%	50V
R409	1-249-419-11	CARBON	1.5K		1/4W	C902	1-164-088-11	CERAMIC	0. 001u			50V
R410	1-249-431-11	CARBON	15K	5%	1/4W	C903	1-162-219-31	CERAMIC	68PF		5%	50V
						C904	1-162-284-31	CERAMIC	150PF		10%	50V
R411	1-249-415-11	CARBON	680	5%	1/4W	C905	1-124-463-00	ELECT	0. 1uF		20%	50V
R412	1-249-412-11	CARBON	390	5%	1/4W							
R413	1-249-425-11	CARBON	4.7K	5%	1/4W	C906	1-126-161-11	ELECT	2. 2uF		20%	50V
R414	1-249-413-11	CARBON	470	5%	1/4W	C907	1-162-219-31	CERAMIC	68PF		5%	50V
R415	1-249-441-11	CARBON	100K	5%	1/4W	C908	1-161-375-00	CERAMIC	0.0022	2uF	20%	50V
						C909	1-136-163-00	FILM	0.0680	лF	5%	50V
R416	1-249-425-11	CARBON	4. 7K	5%	1/4W	C910	1-126-022-11	ELECT	47uF		20%	16V
					•							

The components identified by mark Λ or dotted line with mark. Λ are critical for safety.
Replace only with part number specified.

MICROPHONE AMPLIFIER PANEL

Ref. No.	Part No.	Description		Rema	ark	Ref. No.	Part No.	Descript	ion		Remark
	1-126-022-11 1-164-159-11		47uF 0. 1uF	20%	16V 50V			< DIODE	>		
0012	1 101 100 11	ODIAL III				D601	8-719-987-63	DIODE	1N4148M		
		< CONNECTOR >				D602 D603-6:	8-719-000-84 11	DIODE	UZL-7M1		
* CN901	1-564-507-11	PLUG, CONNECTOR	4P				8-719-987-63	DIODE	1N4148M		
						D612	8-719-018-46		SEL3510C-CD		
		< IC >				D613	8-719-018-46	LED	SEL3510C-CD	(V-VIDE	0 2)
IC901	8-759-184-02	IC NJM2068L-D				D614 D615	8-719-018-46 8-719-313-69		SEL3510C-CD SEL3210S-CD	•	
		< JACK >				D616	8-719-313-69		SEL3210S-CD	•	
		(Onlon)				D617	8-719-313-69		SEL3210S-CD	•	,
J901	1-507-854-00	JACK, PHONE (MI	C)			D618	8-719-313-69		SEL3210S-CD		
		< RESISTOR >				D619	8-719-313-69	LED	SEL3210S-CD	(TUNER)	
						D620	8-719-313-69	LED	SEL3210S-CD	(TAPE)	
R901	1-249-441-11	CARBON	100K 5%	1/4W		D621	8-719-313-69		SEL3210S-CD		
R902	1-249-417-11	CARBON	1K 5%	1/4W		D622	8-719-313-69		SEL3210S-CD	(KARAOK	E PON)
R903	1-249-429-11	CARBON	10K 5%	1/4W				(TA-A77E			
R904	1-249-414-11		560 5%	1/4W		D623	8-719-313-69	LED	SEL3210S-CD	(P. FUNC	TION)
R905	1-249-429-11	CARBON	10K 5%	1/4W		DCOA	0.710.010.00	LED	SEL3210S-CD	(CELECT	10)
DOOC	1 040 417 11	CADDON	11/ EW	1 //₩		D624 D625	8-719-313-69 8-719-313-69		SEL3210S-CD SEL3210S-CD		
R906 R907	1-249-417-11 1-249-441-11		1K 5% 100K 5%	1/4W 1/4W		D625	8-719-313-69		SEL3210S CD		
R908	1-249-413-11		470 5%	1/4W		D627	8-719-313-69		SEL3210S-CD		
R909	1-249-429-11		10K 5%	1/4W		0021	0 710 010 00	LUD	CHECKIOO OF	(210111	211201,
R910	1-249-416-11		820 5%	1/4W				< FLUORE	SCENT INDICA	ATOR >	
		< VARIABLE RESI	STOR >			FL601	1-517-167-11	INDICATO	OR TUBE, FLUC	RESCENT	1
DV001	1 000 004 11	DEC VAD CADDO	N EOV (MIC I	EVEL)				< IC >			
		RES, VAR, CARBO ******	,		****			\ 10 /			
, , , , , , , , , ,						10601	8-759-171-72	IC UPI	78012CW-033		
*	A-4360-769-A	PANEL BOARD, CO	MPLETE (TA-D	709E)		1	8-759-075-35		62C950RF		
*		PANEL BOARD, CO				IC603	8-759-075-35	IC TD	62C950RF		
		******	*****					< TRANS	ISTOR >		
*	4-934-853-01	CUSHION									
*		HOLDER, FL TUBE				Q601	8-729-620-05	TRANSIS	TOR 2SC260:	3-EF	
		< CAPACITOR >				Q602 Q603-6	8-729-620-05 :05	TRANSIS'	ror 2SC260:	3-EF	
		V OAI AUTTOR /				4000 0	8-729-119-76	TRANSIS	FOR 2SA117	5-HFE	
C601	1-104-905-11	DOUBLE LAYERS	0. 22F	5. 5V		Q606-6					
C602	1-161-494-00	CERAMIC	0. 022uF		25V		8-729-620-05	TRANSIS'	FOR 2SC260	3-EF	
C603	1-161-494-00	CERAMIC	0. 022uF		25V						
C604	1-126-177-11	ELECT	100uF	20%	10V			< RESIS	TOR >		
C605	1-164-159-11	CERAMIC	0. 1uF		50V			a. nn a.v		=0.	4 /400
0000	4 404 450 11	aed mi a	0.4 5		E017	R601	1-249-434-11		27K		1/4W
C606	1-164-159-11	CERAMIC	0. 1uF		50V	R603	1-249-429-11		10K 10K		1/4W 1/4W
		< CONNECTOR >				R604 R605	1-249-429-11 1-249-417-11		10K 1K	5% 5%	1/4W 1/4W
		/ OUMBOIUM /				R606	1-249-417-11		4. 7		1/4W
* CN601	1-568-836-11	SOCKET, CONNECT	OR 17P			11000	1 510 150 II	OTHER OIL	, T. (1)	0/0	±/ ±"
		SOCKET, CONNECT				R607	1-249-429-11	CARBON	10K	5%	1/4W
31.002		, , , , , , , , , , , , , , , , , , , ,				R608	1-249-393-11		10	5%	1/4W
						R609	1-249-421-11			K 5%	1/4W
						R610	1-249-421-11	CARBON	2. 2	K 5%	1/4W

PANEL VIDEO (3)

F	Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Descrip	tion		Ren	nark
_	R612-6	14					S618	1-554-303-21	SWITCH,	TACTILE	(MORE 10)		
		1-249-417-11	CARBON	1K	5%	1/4W	S619	1-554-303-21	SWITCH,	TACTILE	(P. FILE)		
	R615	1-249-427-11		6.8K	5%	1/4W	S620	1-554-303-21	SWITCH.	TACTILE	(MEMORY)		
	R617	1-249-427-11		6.8K		1/4W	S621	1-554-303-21				EL)	
	R619	1-249-427-11		6. 8K		1/4W	S622	1-554-303-21	,		•		
	R621	1-249-427-11		6. 8K		1/4W		1 001 000 21	D.1.1013,		(,	
	11021	1 243 427 11	UMIDON	0. 011	JA)	1/ 111	S623	1-554-303-21	SWITCH	TACTILE	(CHARACTER	(דות:	
	R623	1-249-427-11	CADDON	6. 8K	E9/	1/4W	S624	1-554-303-21	,				
				6. 8K		1/4W	S625	1-554-303-21			•)))
		1-249-427-11	CARDON	u. on	3/6	1/4₩	S626	1-554-303-21				JIIIOONI	,,,
	R627-6		GADDON	0.017	E0/	4 /400						17ED\\	
	DCO 4	1-249-433-11		22K	5%	1/4W	S627	1-554-303-21	SWIIUH,	IACIILE	(DAND (EQUA	.14EN))	
		1-249-400-11	CARBUN	39	5%	1/4W	9000	1 554 000 04	OWITMOIL	TACTIC	(CLODE /EOU	u tzeb)	
	R635-6		a		=	4 4477	S628	1-554-303-21				ALIZEK))
		1-249-404-00	CARBON	82	5%	1/4W	S629	1-554-303-21				a o ump	
							S630	1-554-303-21					
	R638	1-249-404-00	CARBON	82	5%	1/4W	S631	1-554-303-21					
			(TA-A77E)				S632	1-554-303-21	SWITCH,	TACTILE	(⊳ (CURSOR	CONTRO)L))
	R639-6	41											
		1-249-404-00	CARBON	82	5%	1/4W	S633	1-554-303-21	,		, ,)L))
	R642	1-249-433-11	CARBON	22K	5%	1/4W	S634	1-554-303-21	SWITCH,	TACTILE	(VIDEO 1/MD))	
	R643	1-249-429-11	CARBON	10K	5%	1/4W	S635	1-554-303-21	SWITCH,	TACTILE	(VIDEO 2)		
	R644	1-249-417-11	CARBON	1K	5%	1/4W	S636	1-554-303-21	SWITCH,	TACTILE	(VIDEO 3)		
							S637	1-554-303-21	SWITCH,	TACTILE	(TAPE)		
	R645	1-249-433-11	CARBON	22K	5%	1/4W							
	R646-6					-,	S638	1-554-303-21	SWITCH.	TACTILE	(CD)		
		1-249-423-11	CARBON	3. 3K	5%	1/4W	S639	1-554-303-21					
	R649-6				0.0	-,	S640	1-554-303-21	,		, ,		
	110 10 0	1-249-429-11	CARRON	10K	5%	1/4W	5010	1 001 000 21	D.,,1101.,	111011111	(110110)		
	R652	1-249-409-11		220	5%	1/4W			< VIBRA	TOR >			
	11002	1 243 403 11	(TA-D709E) (TYP			1/ 111			(TIDIU	1011 /			
	R653	1-249-409-11		220	5%	1/4W	X601	1-579-599-21	VIRRATO	R CERAM	TC (8 38MHz)		
	11000	1 243 403 11	(TA-D709E) (TYP)			1/411		*********				k*****	****
			(IA D/03E) (III	L III, I	' /								
	R654	1-249-409-11	CARBON	220	5%	1/4W	*	1-648-180-11	VIDEO (3) ROARD			
	11001	1 243 403 11	(TA-D709E) (TYP)			1/ 111		1 010 100 11		******			
			(IM D/OSE) (III)	, 1	()								
			< SWITCH >						< CAPAC	ITOR >			
	S601		SWITCH, TACTILE				C135	1-162-286-31	CERAMIC		220PF	10%	50V
	S602	1-554-303-21	SWITCH, TACTILE	(DIGI	TAL EF	FECT)			(TA-D70	9E)			
	S603	1-554-303-21	SWITCH, TACTILE	(P. FU	NCTION)	C136	1-126-049-11	ELECT		22uF	20%	25V
	S604		SWITCH, TACTILE				C185	1-162-286-31	CERAMIC		220PF	10%	50V
	S605		SWITCH, TACTILE						(TA-D70				
			,	,	·		C186	1-126-049-11	ELECT		22uF	20%	25V
	S606	1-554-303-21	SWITCH, TACTILE	(DBS 1	REQUE	NCY)	C931	1-126-059-11			10uF	20%	50V
	S607		SWITCH, TACTILE		•								
	S608		SWITCH, TACTILE				C932	1-164-159-11	CERAMIC		0. 1uF		50V
	S609		SWITCH, TACTILE				0002	1 101 100 11			(TYPE III, IV)		00.
	S610		SWITCH, TACTILE				C933	1-164-159-11			0. 1uF		50V
	2010	1 004 000 41	Dullon, IMOLIEE	(1)			0333	1 101 103 11			(TYPE III, IV)		OU Y
	S611	1_55/_202_21	SWITCH, TACTILE	(5)					עזט אוט	OL.ALI)	(IIIL III, IV)		
									< COMME	CTOR \			
	S612		SWITCH, TACTILE						< CONNE	UIUN /			
	S613		SWITCH, TACTILE					4 FOE OED 44	COCKET	OOM TO THE	OD /DG DOLES	F.D.	
	S614		SWITCH, TACTILE				* CNJ103	1-565-970-11	SUCKET,	CUNNECT	UK (PU BOARD)	51	
	S615	1-554-303-21	SWITCH, TACTILE	(9)					, 1.00				
			amz mar	(4-)					< JACK	>			
	S616		SWITCH, TACTILE							/			
	S617	1-554-303-21	SWITCH, TACTILE	(SELE	T 10)		J931	1-580-174-41	JACK, P	IN (3P F	RONT) (VIDEO	3 IN)	

VIDEO (3) VIDEO FUNCTION VOL

Re	ef. No.	Part No.	Description			Ren	ıark
			< RESISTOR >				
	R135	1-249-417-11	CARBON	1K	5%	1/4W	
	R136	1-247-903-00	CARBON	1M	5%	1/4W	
	R185	1-249-417-11	CARBON	1K	5%	1/4W	
	R186	1-247-903-00		1M	5%	1/4W	
	R931	1-247-804-11		75	5%	1/4W	
**	******	******	******	******	*****	*****	****
*		A-4360-771-A	VIDEO FUNCTIO	ON BOARD, -A77E/TA-			, EE)
*		A-4365-530-A	VIDEO FUNCTIO	ON BOARD,	COMPI	LETE	
					•	A-D709E:	AEP)
			******	******	*****	****	
			< CAPACITOR >	>			
	C801	1-126-059-11	ELECT	10uF		20%	50V
	C802	1-126-059-11	ELECT	10uF		20%	50V
	C804	1-124-471-00	ELECT	1000u	F	20%	6. 3V
	C805	1-124-471-00	ELECT	1000u	F	20%	6. 3V
	C806	1-124-471-00	ELECT	1000u	F	20%	6. 3V
	0007	1 101 404 00	CEDANTO	0.000	P		0511
	C807 C808	1-161-494-00 1-126-049-11		0. 022 22uF	ur	20%	25V 25V
	0000	1-120-049-11	ELECT	ZZur		20%	LJY
			< CONNECTOR	>			
	CN802	1-564-505-11	PLUG, CONNECT	TOR 2P (T	'A-D709	9E:AEP)	
			(TYPE III, IV)				
*	CNJ801	1-569-502-11	PIN, CONNECTO	OR 7P			
			< IC >				
	IC801	8-759-061-95	IC SN761200	DN			
			< JACK >				
	J801	1-568-751-51	JACK, PIN (21	D CHIFID	TVDF)	(VIDEO	1 /MD)
	J802		JACK, PIN (3)			(11000	(עווו / 1
			(VIDEO 2/MON		,		
			< COIT >				
	L801	1-410-521-11	INDUCTOR	100uH	1		
			< TRANSISTOR	>			
	Q801-8						
		8-729-119-76		2SA1175-			
	Q804	8-729-620-05	TRANSISTOR	2SC2603-	EF		
			< RESISTOR >				
	R801	1-247-804-11	CARRON	75	5%	1/4W	
	R802	1-247-804-11		75	5%	1/4W	
	R804			68	5%	1/4W	
	R805	1-249-429-11		10K	5%	1/4W	

Ref. No.	Part No.	Description			Ren	ıark
R806	1-249-403-11	CARBON	68	5%	1/4W	
R807	1-249-429-11	CARBON	10K	5%	1/4W	
R808	1-249-403-11	CARBON	68	5%	1/4W	
R809	1-249-429-11	CARBON	10K	5%	1/4W	
R810-8						
	1-249-408-11	CARBON	180	5%	1/4W	
R816	1-249-429-11	CARBON	10K	5%	1/4W	
R817	1-249-417-11	CARBON	1K	5%	1/4W	
R819	1-249-417-11		1K	5%	1/4W	
******	*****	******	****	*****	******	****
*	A-4360-773-A	VOL BOARD, COMPI		== m.		, nn) :
	1 4005 500 1				D709E:UI	
*		VOL BOARD, COMPI				
*	A-4305-533-A	VOL BOARD, COMPI		(1A-D7)	J9E:G, 1.	1)
		< CAPACITOR >				
C251	1-161-494-00	CEDAMIC	0. 02	9.1F		25V
C251	1-161-494-00		47uF		20%	10V
C421	1-126-161-11		2. 2u		20%	50V
C422	1-126-049-11		22uF		20%	25V
C423	1-126-022-11		47uF		20%	16V
CARE	1 104 150 11	CEDAMIC	0. 1u	D.		50V
C425	1-164-159-11			III, IV)	301
C431	1-126-161-11		2. 2u		20%	50V
C432	1-126-049-11		22uF		20%	25V
C433	1-162-286-31	CERAMIC	220P	F	10%	50V
		(TA-D709E:G, IT)	(TYP	E II, II	I, IV)	
C471	1-126-161-11	ELECT	2. 2u	F	20%	50V
C472	1-126-049-11	ELECT	22uF		20%	25V
C473	1-126-022-11	ELECT	47uF		20%	16V
C474	1-162-199-31	CERAMIC	10PF		5%	50V
C475	1-164-159-11		0. 1u			50V
				III, IV		= 011
C481	1-126-161-11	ELECT	2. 2u	ıF	20%	50V
C482	1-126-049-11		22uF		20%	25V
C483	1-162-286-31	CERAMIC (TA-D709E:G, IT)	220F		10%	50V
		< CONNECTOR >	(111		u, 1v)	
ano=4	4 504 500 44	DI HA GOVERATOR	0.00			
* CN251		PLUG, CONNECTOR				
		PLUG, CONNECTOR SOCKET, CONNECT)		
		PLUG, CONNECTOR				
		PLUG, CONNECTOR				
		< DIODE >				
D251	8-719-010-30	DIODE UZ-4. 3B	SC			



Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description
		< IC >						MISCELLANEOUS
IC251	8-759-820-62	IC LB1639				-		******
	8-759-710-59					7	1-690-420-11	WIRE, FLAT TYPE (7 CO
	8-759-710-59					7		WIRE, FLAT TYPE (7 CO
10122	0 703 710 33	10 11011143000 0				'	1 030 033 11	(TA-A77E/TA-D709E:AEP
		< TRANSISTOR >				60	1-751-486-11	WIRE (FLAT TYPE) (17
		(Hambibion /				1 68	1-575-654-11	
0251	8-729-900-36	TRANSISTOR DTC	124ES			7.500	1 0/0 001 11	(TA-A77E: EA, MY, SP/TA-
4=	0 .20 000 00		12 100			1€69	1-575-656-11	CORD, POWER (TA-A77E:
		< RESISTOR >				2.3		(
						<i>1</i> 1 √10	1-575-669-21	CORD, POWER (TA-D709E
R251	1-249-412-11	CARBON	390	5%	1/4W	<u>√</u> 71		CORD, POWER (TA-A77E:
R252	1-249-393-11	CARBON	10	5%	1/4W	∕\S901	1-570-046-21	SWITCH, VOLTAGE CHANG
R253	1-249-413-11	CARBON	470	5%	1/4W			(TA-A77E)
R254	1-249-413-11	CARBON	470	5%	1/4W	<u>1</u> 17701	1-423-671-11	TRANSFORMER, POWER (T.
R421	1-249-441-11	CARBON	100K	5%	1/4W	<u>↑</u> T701	1-423-672-11	TRANSFORMER, POWER (T
R422	1-249-434-11	CARBON	27K	5%	1/4W	*****	*****	*******
R423	1-249-426-11	CARBON	5. 6K	5%	1/4W			
R424	1-249-441-11	CARBON	100K	5%	1/4W		****	*******
R425	1-249-403-11	CARBON	68	5%	1/4W		HAF	DWARE LIST
R426	1-249-421-11	CARBON	2. 2K	5%	1/4W		****	********
R431	1-249-441-11	CARBON	100K	5%	1/4W	#1	7-682-547-09	SCREW +BVTT 3X6 (S)
R432	1-249-441-11	CARBON	100K	5%	1/4W	#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2
R433	1-249-417-11	CARBON	1K	5%	1/4W	#3	7-682-548-04	SCREW +BVTT 3X8 (S)
R434	1-249-417-11	CARBON	1K	5%	1/4W	#4	7-621-849-00	SCREW (BV/RING)
R471	1-249-441-11	CARBON	100K	5%	1/4W			
R472	1-249-434-11		27K	5%	1/4W			
R473	1-249-431-11		15K	5%	1/4W			
R474	1-249-441-11		100K		1/4W			
R475	1-249-403-11		68	5%	1/4W			
R476	1-249-421-11	CARBON	2. 2K	5%	1/4W			
R481	1-249-441-11		100K		1/4W			
R482	1-249-441-11		100K		1/4W			
R483	1-249-417-11		1K	5%	1/4W			
R484	1-249-417-11	CARBON	1K	5%	1/4W			
		< VARIABLE RESIS	TOR >					
RV202	1-223-389-11	RES, VAR, CARBON	10K/	100KX4	(VOLUME)			

Ref. No.	Part No.	Description Remark
		MISCELLANEOUS

7	1-690-420-11	WIRE, FLAT TYPE (7 CORE) (TA-D709E:EE)
7	1-690-635-11	WIRE, FLAT TYPE (7 CORE)
,		(TA-A77E/TA-D709E:AEP, UK, G, IT)
60	1-751-486-11	WIRE (FLAT TYPE) (17 CORE)
<u>1</u> 168	1-575-654-11	CORD, POWER
		(TA-A77E:EA, MY, SP/TA-D709E:AEP, G, IT, EE)
1 €69	1-575-656-11	CORD, POWER (TA-A77E:E, JE)
<u>^</u> 70	1-575-669-21	CORD, POWER (TA-D709E:UK)
 ↑71	1-751-355-11	CORD, POWER (TA-A77E:AUS)
 ∆S901	1-570-046-21	SWITCH, VOLTAGE CHANGE (VOLTAGE SELECTOR)
		(TA-A77E)
<u>1</u> 7701	1-423-671-11	TRANSFORMER, POWER (TA-D709E)
<u>1</u> ₹7701	1-423-672-11	TRANSFORMER, POWER (TA-A77E)
******	*****	************

RDWARE LIST *******

SCREW +BVTT 3X6 (S) SCREW +BVTP 3X8 TYPE2 N-S SCREW +BVTT 3X8 (S) SCREW (BV/RING)

The components identified by mark Λ or dotted line with mark. $\underline{\Lambda}$ are critical for safety. Replace only with part number specified.

TA-A77E/D709E